

QSPR modeling of the refractive index for a diverse set of polymers using 2D descriptors

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Table S1 The list of diverse polymers with experimental refractive indices and predicted values using four individual models

Compound No.	Polymer	Experimental Refractive Index (RI)	Log RI (n)	Set	Pred_RI (n) (Model-1)	Pred_RI (n) (Model-2)	Pred_RI (n) (Model-3)	Pred_RI (n) (Model-4)
1	Poly(hexafluoropropylene oxide)	1.301	0.1143	test	0.1262	0.1153	0.1170	0.1195
3	Poly(pentadecafluorooctyl acrylate)	1.339	0.1268	Training	0.1245	0.1195	0.1226	0.1187
4	Poly(tetrafluoro-3-(heptafluoropropoxy)propyl acrylate)	1.346	0.1290	Training	0.1298	0.1266	0.1289	0.1264

5	Poly(tetrafluoro-3-(pentafluoroethoxy)propyl acrylate)	1.348	0.1297	Training	0.1335	0.1290	0.1324	0.1299
6	Poly(tetrafluoroethylene)	1.35	0.1303	Training	0.1280	0.1133	0.1186	0.1217
7	Poly(undecafluorohexyl acrylate)	1.356	0.1323	Training	0.1306	0.1277	0.1289	0.1269
8	Poly(nonafluoropentyl acrylate)	1.36	0.1335	Training	0.1341	0.1325	0.1329	0.1318
9	Poly(tetrafluoro-3-(trifluoromethoxy)propyl acrylate)	1.36	0.1335	Training	0.1370	0.1356	0.1372	0.1367
10	Poly(pentafluorovinyl propionate)	1.364	0.1348	Training	0.1396	0.1395	0.1388	0.1399
11	Poly(heptafluorobutyl acrylate)	1.367	0.1358	Training	0.1381	0.1379	0.1378	0.1374
12	Poly(trifluorovinyl acetate)	1.375	0.1383	Training	0.1466	0.1465	0.1480	0.1503
13	Poly(octafluoropentyl acrylate)	1.38	0.1399	Training	0.1369	0.1365	0.1369	0.1358
14	Poly(methyl 3,3,3-trifluoropropyl siloxane)	1.383	0.1408	Training	0.1423	0.1518	0.1463	0.1467
15	Poly(pentafluoropropyl acrylate)	1.385	0.1414	Training	0.1429	0.1438	0.1439	0.1444
16	Poly(2-heptafluorobutoxy)ethyl acrylate)	1.39	0.1430	Training	0.1411	0.1443	0.1439	0.1423
17	Poly(chlorotrifluoroethylene)	1.39	0.1430	Training	0.1468	0.1313	0.1416	0.1365
18	Poly(2,2,3,4,4-hexafluorobutyl acrylate)	1.392	0.1436	Training	0.1408	0.1415	0.1420	0.1416
19	Poly(methyl hydro siloxane)	1.397	0.1452	Training	0.1746	0.1654	0.1724	0.1649
20	Poly(dimethyl siloxane)	1.4035	0.1472	Training	0.1673	0.1654	0.1651	0.1609

21	Poly(trifluoroethyl acrylate)	1.407	0.1483	Training	0.1488	0.1509	0.1519	0.1533
22	Poly(2-(1,1,2,2-tetrafluoroethoxy)ethyl acrylate)	1.412	0.1498	Training	0.1476	0.1521	0.1519	0.1517
23	Poly(trifluoroisopropyl methacrylate)	1.4177	0.1516	Training	0.1505	0.1570	0.1557	0.1558
24	Poly(2,2,2-trifluoro-1-methylethyl methacrylate)	1.4185	0.1518	Training	0.1505	0.1570	0.1557	0.1558
26	Poly(2-trifluoroethoxyethyl acrylate)	1.419	0.1520	Training	0.1509	0.1549	0.1565	0.1564
27	Poly(vinylidene fluoride)	1.42	0.1523	Training	0.1453	0.1421	0.1449	0.1466
28	Poly(trifluoroethyl methacrylate)	1.437	0.1575	Training	0.1501	0.1544	0.1544	0.1551
29	Poly(methyl octadecyl siloxane)	1.443	0.1593	Training	0.1526	0.1568	0.1551	0.1543
30	Poly(methyl hexyl siloxane)	1.443	0.1593	Training	0.1572	0.1599	0.1556	0.1564
31	Poly(methyl octyl siloxane)	1.445	0.1599	Training	0.1558	0.1589	0.1546	0.1558
32	Poly(isobutyl methacrylate)	1.447	0.1605	Training	0.1712	0.1739	0.1713	0.1717
33	Poly(vinyl isobutyl ether)	1.4507	0.1616	Training	0.1703	0.1699	0.1699	0.1689
34	Poly(methyl hexadecyl siloxane)	1.451	0.1617	Training	0.1530	0.1571	0.1546	0.1544
35	Poly(ethylene oxide)	1.4539	0.1625	Training	0.1731	0.1692	0.1717	0.1728
36	Poly(vinyl ethyl ether)	1.454	0.1626	Training	0.1707	0.1680	0.1699	0.1696
37	Poly(methyl tetradecyl siloxane)	1.455	0.1629	Training	0.1534	0.1574	0.1542	0.1547
38	Poly(vinyl n-butyl ether)	1.4563	0.1633	Training	0.1705	0.1678	0.1701	0.1691

39	Poly(propylene oxide)	1.457	0.1635	Training	0.1727	0.1697	0.1716	0.1720
40	Poly(3-butoxypropylene oxide)	1.458	0.1638	Training	0.1713	0.1685	0.1710	0.1701
41	Poly(3-hexoxypropylene oxide)	1.459	0.1641	Training	0.1715	0.1686	0.1718	0.1701
42	Poly(ethylene glycol)	1.459	0.1641	Training	0.1712	0.1682	0.1692	0.1714
43	Poly(vinyl n-pentyl ether)	1.459	0.1641	Training	0.1705	0.1677	0.1702	0.1689
44	Poly(vinyl n-hexyl ether)	1.4591	0.1641	Training	0.1704	0.1676	0.1704	0.1688
45	Poly(4-fluoro-2-trifluoromethylstyrene)	1.46	0.1644	Training	0.1666	0.1744	0.1708	0.1731
46	Poly(vinyl octyl ether)	1.4613	0.1647	Training	0.1703	0.1674	0.1709	0.1686
47	Poly(vinyl n-decyl ether)	1.4628	0.1652	Training	0.1703	0.1673	0.1714	0.1685
48	Poly(2-methoxyethyl acrylate)	1.463	0.1652	Training	0.1706	0.1722	0.1703	0.1717
49	Poly(acryloxypropyl methyl siloxane)	1.463	0.1652	Training	0.1615	0.1667	0.1603	0.1640
50	Poly(4-methyl-1-pentene)	1.463	0.1652	Training	0.1717	0.1716	0.1715	0.1701
51	Poly(3-methoxypropylene oxide)	1.463	0.1652	Training	0.1708	0.1681	0.1696	0.1700
52	Poly(t-butyl methacrylate)	1.4638	0.1655	Training	0.1711	0.1750	0.1712	0.1716
53	Poly(3-ethoxypropyl acrylate)	1.465	0.1658	Training	0.1707	0.1721	0.1710	0.1711
54	Poly(ethyl acrylate)	1.4685	0.1669	test	0.1719	0.1739	0.1715	0.1736
55	Poly(vinyl acetate)	1.4665	0.1663	Training	0.1721	0.1738	0.1714	0.1744
56	Poly(vinyl methyl ether)	1.467	0.1664	Training	0.1709	0.1679	0.1698	0.1701
58	Poly(3-methoxypropyl acrylate)	1.471	0.1676	Training	0.1707	0.1722	0.1707	0.1714
59	Poly(1-octadecene)	1.471	0.1676	test	0.1704	0.1673	0.1736	0.1684

60	Poly(2-ethoxyethyl acrylate)	1.471	0.1676	Training	0.1707	0.1722	0.1707	0.1714
61	Poly(isopropyl acrylate)	1.4728	0.1681	Training	0.1716	0.1737	0.1713	0.1728
62	Poly(1-decene)	1.473	0.1682	test	0.1710	0.1682	0.1715	0.1692
63	Poly(lauryl methacrylate)	1.474	0.1685	Training	0.1709	0.1730	0.1737	0.1701
64	Poly(n-butyl acrylate)	1.474	0.1685	Training	0.1755	0.1773	0.1760	0.1785
65	Poly(dodecyl methacrylate)	1.474	0.1685	test	0.1709	0.1730	0.1737	0.1701
66	Poly(tetradecyl methacrylate)	1.4746	0.1687	test	0.1708	0.1729	0.1745	0.1698
67	Poly(hexadecyl methacrylate)	1.475	0.1688	Training	0.1707	0.1728	0.1754	0.1696
68	Poly(vinyl formate)	1.4757	0.1690	test	0.1721	0.1697	0.1712	0.1754
69	Poly(2-fluoroethyl methacrylate)	1.4768	0.1693	test	0.1582	0.1678	0.1657	0.1669
70	Poly(octyl methyl silane)	1.478	0.1697	Training	0.1775	0.1709	0.1783	0.1713
71	Poly(methyl acrylate)	1.4793	0.1701	test	0.1721	0.1743	0.1714	0.1744
72	Poly(dicyanopropyl siloxane)	1.48	0.1703	Training	0.1721	0.1697	0.1701	0.1751
73	Poly(oxymethylene)	1.48	0.1703	Training	0.1737	0.1672	0.1718	0.1744
74	Poly(sec-butyl methacrylate)	1.48	0.1703	Training	0.1712	0.1740	0.1713	0.1717
75	Poly(n-hexyl methacrylate)	1.4813	0.1706	Training	0.1712	0.1737	0.1719	0.1712
76	Poly(n-butyl methacrylate)	1.483	0.1711	Training	0.1714	0.1741	0.1716	0.1718
77	Poly(2-ethoxyethyl methacrylate)	1.4833	0.1712	Training	0.1706	0.1731	0.1707	0.1709
78	Poly(n-propyl methacrylate)	1.484	0.1714	Training	0.1715	0.1743	0.1714	0.1723
79	Poly(ethyl methacrylate)	1.485	0.1717	Training	0.1716	0.1746	0.1713	0.1728
80	Poly(3,3,5-trimethylcyclohexyl methacrylate)	1.485	0.1717	test	0.1773	0.1811	0.1771	0.1763

81	Poly(2-nitro-2-methylpropyl methacrylate)	1.4868	0.1723	Training	0.1726	0.1780	0.1722	0.1759
82	Poly(1,1-diethylpropyl methacrylate)	1.4889	0.1729	Training	0.1709	0.1752	0.1715	0.1707
83	Poly(methyl methacrylate)	1.4893	0.1730	Training	0.1717	0.1749	0.1713	0.1734
84	Poly(mercaptopropyl methyl siloxane)	1.49	0.1732	Training	0.1731	0.1739	0.1716	0.1675
85	Poly(3-methylcyclohexyl methacrylate)	1.4947	0.1746	Training	0.1785	0.1801	0.1784	0.1777
86	Poly(cyclohexyl alpha-ethoxyacrylate)	1.4969	0.1752	Training	0.1774	0.1814	0.1769	0.1769
87	Poly(4-methylcyclohexyl methacrylate)	1.4975	0.1754	Training	0.1786	0.1791	0.1785	0.1778
88	Poly(vinyl alcohol)	1.5	0.1761	Training	0.1731	0.1692	0.1717	0.1728
89	Poly(vinyl formal)	1.5	0.1761	Training	0.1764	0.1742	0.1761	0.1807
90	Poly(2-bromo-4-trifluoromethyl styrene)	1.5	0.1761	Training	0.1807	0.1847	0.1867	0.1845
91	Poly(1,2-butadiene)	1.5	0.1761	Training	0.1838	0.1845	0.1852	0.1881
92	Poly(sec-butyl alpha-chloroacrylate)	1.5	0.1761	Training	0.1759	0.1761	0.1758	0.1737
93	Poly(vinyl methyl ketone)	1.5	0.1761	Training	0.1756	0.1778	0.1753	0.1786
94	Poly(ethyl alpha-chloroacrylate)	1.502	0.1767	test	0.1773	0.1767	0.1768	0.1749

95	Poly(2-methylcyclohexyl methacrylate)	1.5028	0.1769	Training	0.1786	0.1808	0.1785	0.1778
96	Poly(bornyl methacrylate)	1.5059	0.1778	Training	0.1846	0.1854	0.1837	0.1828
97	Poly(cyclohexyl methacrylate)	1.5065	0.1780	Training	0.1793	0.1800	0.1793	0.1786
98	Poly(tetrahydrofurfuryl methacrylate)	1.5096	0.1789	Training	0.1789	0.1771	0.1786	0.1783
99	Poly(isobutylene)	1.51	0.1790	Training	0.1729	0.1730	0.1725	0.1716
100	Polyethylene	1.51	0.1790	Training	0.1774	0.1707	0.1771	0.1766
101	Poly(1-methylcyclohexyl methacrylate)	1.5111	0.1793	Training	0.1787	0.1807	0.1786	0.1779
102	Poly(2-hydroxyethyl methacrylate)	1.5119	0.1795	Training	0.1726	0.1754	0.1722	0.1738
103	Poly(vinyl methacrylate)	1.5129	0.1798	Training	0.1759	0.1783	0.1761	0.1783
104	Poly(vinyl chloroacetate)	1.513	0.1798	test	0.1785	0.1762	0.1777	0.1758
105	Poly(N-butyl methacrylamide)	1.5135	0.1800	test	0.1734	0.1752	0.1730	0.1736
106	Poly(2-chloroethyl methacrylate)	1.517	0.1810	test	0.1766	0.1764	0.1764	0.1744
107	Poly(methyl alpha-chloroacrylate)	1.517	0.1810	test	0.1783	0.1771	0.1775	0.1756
108	Poly(2-diethylaminoethyl methacrylate)	1.5174	0.1811	Training	0.1712	0.1729	0.1713	0.1708
109	Poly(2-chlorocyclohexyl methacrylate)	1.5179	0.1812	test	0.1828	0.1829	0.1826	0.1799
110	Poly(acrylonitrile)	1.5187	0.1815	test	0.1796	0.1751	0.1787	0.1870

111	Poly(allyl methacrylate)	1.5196	0.1817	Training	0.1754	0.1777	0.1758	0.1773
112	Poly(methacrylonitrile)	1.52	0.1818	Training	0.1777	0.1763	0.1771	0.1834
113	Poly(methyl isopropenyl ketone)	1.52	0.1818	test	0.1748	0.1779	0.1746	0.1769
114	Poly(2-ethyl-2-oxazoline)	1.52	0.1818	test	0.1736	0.1743	0.1722	0.1747
115	Poly(N-2-methoxyethyl)methacrylamide	1.5246	0.1832	test	0.1725	0.1742	0.1718	0.1728
116	Poly(2-chloro-1-(chloromethyl)ethyl methacrylate)	1.527	0.1838	Training	0.1806	0.1780	0.1805	0.1755
117	Poly(1,3-dichloropropyl methacrylate)	1.527	0.1838	test	0.1806	0.1780	0.1805	0.1755
118	Poly(acrylic acid)	1.527	0.1838	Training	0.1731	0.1751	0.1722	0.1764
119	Poly(N-vinyl pyrrolidone)	1.53	0.1847	test	0.1864	0.1883	0.1859	0.1858
120	Poly(cyclohexyl alpha-chloroacrylate)	1.532	0.1853	test	0.1849	0.1830	0.1850	0.1814
121	Poly(methyl phenyl siloxane)	1.533	0.1855	Training	0.1840	0.1900	0.1842	0.1892
122	Poly(2-chloroethyl alpha-chloroacrylate)	1.533	0.1855	Training	0.1831	0.1787	0.1825	0.1766
123	Poly(2-aminoethyl methacrylate)	1.537	0.1867	Training	0.1716	0.1733	0.1705	0.1721
124	Poly(furfuryl methacrylate)	1.5381	0.1870	Training	0.1852	0.1848	0.1857	0.1889
125	Poly(vinyl chloride)	1.539	0.1872	Training	0.1839	0.1728	0.1828	0.1755
126	Poly(N-methyl methacrylamide)	1.5398	0.1875	Training	0.1734	0.1753	0.1720	0.1745

127	Poly(cyclohexyl alpha-bromoacrylate)	1.542	0.1881	Training	0.1879	0.1855	0.1879	0.1839
128	Poly(sec-butyl alpha-bromoacrylate)	1.542	0.1881	Training	0.1751	0.1788	0.1756	0.1775
129	Poly(2-bromoethyl methacrylate)	1.5426	0.1883	Training	0.1815	0.1801	0.1815	0.1778
130	Poly(N-allyl methacrylamide)	1.5476	0.1897	Training	0.1771	0.1784	0.1767	0.1787
131	Poly(1-phenylethyl methacrylate)	1.5487	0.1900	Training	0.1886	0.1899	0.1894	0.1932
132	Poly(2-vinyltetrahydrofuran)	1.55	0.1903	test	0.1837	0.1830	0.1841	0.1810
133	Poly(vinylfuran)	1.55	0.1903	test	0.1924	0.1953	0.1942	0.1974
134	Poly(methyl m-chlorophenylethyl siloxane)	1.55	0.1903	Training	0.1817	0.1873	0.1810	0.1840
135	Poly(p-methoxybenzyl methacrylate)	1.552	0.1909	Training	0.1878	0.1894	0.1883	0.1926
136	Poly(isopropyl methacrylate)	1.552	0.1909	test	0.1713	0.1742	0.1712	0.1721
137	Poly(p-isopropyl styrene)	1.554	0.1915	Training	0.1907	0.1949	0.1919	0.1959
138	Poly(cyclohexyl methyl silane)	1.557	0.1923	Training	0.1912	0.1875	0.1921	0.1826
139	Poly(1-phenylallyl methacrylate)	1.5573	0.1924	test	0.1954	0.1958	0.1969	0.2011
140	Poly(p-cyclohexylphenyl methacrylate)	1.5575	0.1924	test	0.1923	0.1897	0.1912	0.1944
141	Poly(chloroprene)	1.558	0.1926	test	0.1853	0.1834	0.1853	0.1811
142	Poly(2-phenylethyl methacrylate)	1.5592	0.1929	test	0.1886	0.1892	0.1893	0.1929

143	Poly(methyl m-chlorophenyl siloxane)	1.56	0.1931	test	0.1888	0.1931	0.1887	0.1895
144	Poly(1-phenylcyclohexyl methacrylate)	1.5645	0.1944	test	0.1923	0.1908	0.1915	0.1946
145	Poly(methyl alpha-bromoacrylate)	1.5672	0.1951	test	0.1843	0.1815	0.1839	0.1796
146	Poly(benzyl methacrylate)	1.568	0.1953	Training	0.1898	0.1908	0.1908	0.1949
147	Poly[2-(phenylsulfonyl)ethyl methacrylate]	1.5682	0.1954	Training	0.1939	0.1989	0.1944	0.1986
148	Poly(m-cresyl methacrylate)	1.5683	0.1954	test	0.1900	0.1935	0.1910	0.1961
149	Poly(o-methoxyphenol methacrylate)	1.5705	0.1960	Training	0.1879	0.1946	0.1882	0.1940
150	Poly(phenyl methacrylate)	1.5706	0.1961	test	0.1913	0.1928	0.1925	0.1979
151	Poly(o-cresyl methacrylate)	1.5707	0.1961	Training	0.1901	0.1948	0.1911	0.1960
152	Poly(diallyl phthalate)	1.572	0.1965	test	0.1877	0.1948	0.1881	0.1912
153	Poly(2,3-dibromopropyl methacrylate)	1.5739	0.1970	test	0.1897	0.1850	0.1901	0.1823
154	Poly(2,6-dimethyl-p-phenylene oxide)	1.575	0.1973	test	0.1961	0.2056	0.1977	0.2037
155	Poly(ethylene terephthalate)	1.575	0.1973	test	0.1943	0.1967	0.1955	0.2005
156	Poly(vinyl benzoate)	1.5775	0.1980	test	0.1932	0.1962	0.1947	0.1997
157	Poly(1,2-diphenylethyl methacrylate)	1.5816	0.1991	Training	0.2004	0.1958	0.1994	0.2032

158	Poly(o-chlorobenzyl methacrylate)	1.5823	0.1993	test	0.1939	0.1956	0.1947	0.1959
159	Poly(m-nitrobenzyl methacrylate)	1.5845	0.1999	Training	0.1904	0.1943	0.1902	0.1959
160	Poly[N-(2-phenylethyl)methacrylamide]	1.5857	0.2002	test	0.1905	0.1904	0.1906	0.1947
161	Poly(4-methoxy-2-methylstyrene)	1.5868	0.2005	test	0.1908	0.1978	0.1918	0.1968
162	Poly(o-methyl styrene)	1.5874	0.2007	test	0.1943	0.2020	0.1960	0.2009
163	Polystyrene	1.5894	0.2012	Training	0.1987	0.2022	0.2013	0.2012
164	Poly(o-methoxy styrene)	1.5932	0.2023	test	0.1921	0.2000	0.1934	0.1988
165	Poly(diphenylmethyl methacrylate)	1.5933	0.2023	Training	0.2017	0.1981	0.2013	0.2048
166	Poly(propylene sulfide)	1.596	0.2030	test	0.1972	0.1916	0.1987	0.1931
167	Poly(p-bromophenyl methacrylate)	1.5964	0.2031	Training	0.2001	0.1986	0.2013	0.2022
168	Poly(N-benzyl methacrylamide)	1.5965	0.2032	test	0.1916	0.1918	0.1919	0.1965
169	Poly(p-methoxy styrene)	1.5967	0.2032	Training	0.1923	0.1966	0.1936	0.1989
170	Poly(vinylidene chloride)	1.6	0.2041	Training	0.1924	0.1779	0.1908	0.1763
171	Poly(pentachlorophenyl methacrylate)	1.608	0.2063	Training	0.2136	0.2104	0.2138	0.2037
172	Poly(2-chlorostyrene)	1.6098	0.2068	Training	0.2014	0.2055	0.2033	0.2041
173	Poly(alpha-methylstyrene)	1.61	0.2068	test	0.1939	0.1984	0.1957	0.2006
174	Poly(phenyl alpha-bromoacrylate)	1.612	0.2074	test	0.2023	0.1996	0.2037	0.2043

175	Poly(p-divinylbenzene)	1.615	0.2082	test	0.1924	0.1970	0.1939	0.1983
176	Poly(N-vinyl phthalimide)	1.62	0.2095	Training	0.2106	0.2117	0.2117	0.2149
177	Poly(2,6-dichlorostyrene)	1.6248	0.2108	test	0.2064	0.2090	0.2080	0.2045
178	Poly(chloro-p-xylene)	1.629	0.2119	Training	0.2015	0.2030	0.2034	0.2042
179	Poly(beta-naphthyl methacrylate)	1.6298	0.2121	Training	0.2091	0.2087	0.2100	0.2116
180	Poly(phenyl methyl silane)	1.63	0.2122	Training	0.2081	0.2061	0.2109	0.2080
181	Poly(2-vinylthiophene)	1.6376	0.2142	Training	0.2046	0.2043	0.2075	0.2052
182	Poly(alpha-naphthyl methacrylate)	1.641	0.2151	Training	0.2095	0.2104	0.2104	0.2121
183	Poly(vinyl phenyl sulfide)	1.6568	0.2193	test	0.2050	0.2061	0.2075	0.2092
184	Poly(p-xylylene)	1.669	0.2225	Training	0.1969	0.2027	0.1991	0.2045
185	Poly(2-vinylnaphthalene)	1.6818	0.2258	test	0.2155	0.2174	0.2183	0.2216
186	Poly(N-vinyl carbazole)	1.683	0.2261	Training	0.2247	0.2234	0.2261	0.2102
187	Poly(pentabromophenyl methacrylate)	1.71	0.2330	Training	0.2355	0.2275	0.2367	0.2202
189	Poly(vinyl n-octyl acrylate)	1.4613	0.1647	Training	0.1737	0.1762	0.1757	0.1739
190	Poly(vinyl n-dodecyl ether)	1.464	0.1655	test	0.1702	0.1671	0.1721	0.1683
191	Poly(vinyl propionate)	1.4664	0.1663	test	0.1719	0.1739	0.1715	0.1736
192	Poly(vinyl methyl ether) (isotactic)	1.47	0.1673	test	0.1709	0.1679	0.1698	0.1701
193	Poly(propylene) (atactic)	1.4735	0.1684	Training	0.1744	0.1705	0.1740	0.1733

194	Poly(vinyl sec-butyl ether) (isotactic)	1.474	0.1685	Training	0.1715	0.1708	0.1713	0.1696
195	Poly(ethylene succinate)	1.4744	0.1686	Training	0.1756	0.1765	0.1755	0.1784
196	Ethylene/vinyl acetate copolymer- 40% vinyl acetate	1.476	0.1691	test	0.1764	0.1732	0.1762	0.1768
198	Ethylene/vinyl acetate copolymer- 33% vinyl acetate	1.482	0.1708	test	0.1756	0.1717	0.1752	0.1759
199	Poly(ethylidene dimethacrylate)	1.4831	0.1712	Training	0.1713	0.1737	0.1722	0.1726
200	Ethylene/vinyl acetate copolymer- 28% vinyl acetate	1.4845	0.1716	Training	0.1759	0.1716	0.1755	0.1760
201	Poly(dimethylsiloxane-co- diphenylsiloxane)	1.488	0.1726	Training	0.1687	0.1670	0.1666	0.1628
202	Polypropylene, isotactic	1.49	0.1732	test	0.1744	0.1705	0.1740	0.1733
203	Methyl cellulose	1.497	0.1752	Training	0.1774	0.1820	0.1762	0.1756
204	Poly(cyclohexanediol-1,4- dimethacrylate)	1.5067	0.1780	Training	0.1773	0.1760	0.1769	0.1771
205	Butyl rubber (unvulcanized)	1.508	0.1784	Training	0.1730	0.1731	0.1726	0.1717
206	Gutta percha b	1.509	0.1787	test	0.1772	0.1804	0.1775	0.1783
207	Polyethylene, low density	1.51	0.1790	Training	0.1774	0.1707	0.1771	0.1766
208	Cellulose nitrate	1.51	0.1790	Training	0.1792	0.1771	0.1671	0.1788
209	Poly(1-butene) (isotactic)	1.5125	0.1797	test	0.1731	0.1701	0.1727	0.1718
210	Poly(isoprene), cis	1.5191	0.1816	Training	0.1772	0.1804	0.1775	0.1783

211	Poly(butadiene-co-acrylonitrile)	1.52	0.1818	test	0.1790	0.1769	0.1788	0.1829
212	Nylon 6 [Poly(caprolactam)]	1.53	0.1847	test	0.1741	0.1703	0.1732	0.1749
213	Poly(butadiene-co-styrene) (30% styrene) block copolymer	1.53	0.1847	Training	0.1840	0.1849	0.1849	0.1875
214	Poly(butadiene-co-styrene) (75/25)	1.535	0.1861	test	0.1831	0.1838	0.1839	0.1863
215	Poly(1-phenyl-n-amyl methacrylate)	1.5396	0.1874	test	0.1862	0.1870	0.1866	0.1897
216	Cellulose	1.54	0.1875	Training	0.1912	0.1913	0.1870	0.1896
217	Hydroxypropyl cellulose	1.56	0.1931	Training	0.1812	0.1838	0.1797	0.1797
218	Poly[1-(o-chlorophenyl)ethyl methacrylate]]	1.5624	0.1938	Training	0.1968	0.1982	0.1978	0.1993
220	Nylon 6,6 [Poly(hexamethylene adipamide)]	1.565	0.1945	Training	0.1769	0.1765	0.1779	0.1774
221	Styrene/acrylonitrile copolymer	1.57	0.1959	test	0.1932	0.1961	0.1948	0.2008
222	Poly(oxycarbonyloxy-1,4-phenyleneisopropylidene-1,4-phenylene)	1.585	0.2000	Training	0.2192	0.2105	0.2163	0.2162
223	Polycarbonate resin	1.586	0.2003	Training	0.2038	0.2022	0.2033	0.2056
224	Polysulfone resin	1.633	0.2130	Training	0.2265	0.2150	0.2121	0.2139
225	Poly (2,6-diphenyl-1,4-phenylene oxide)	1.64	0.2148	Training	0.2268	0.2226	0.2263	0.2203

227	Poly(p-phenylene ether-sulphone)	1.65	0.2175	Training	0.2159	0.2174	0.2169	0.2205
228	Ethyl cellulose	1.479	0.1700	test	0.1774	0.1817	0.1763	0.1756

Figure S1- Scatter plots of Observed refractive indices vs Predicted refractive indices by four individual models of training and test set polymers : A) correlation plot between observed and predicted values using for PLS model-1 (5801); B) correlation plot between observed and predicted values using for PLS model-2 (7861); C) correlation plot between observed and predicted values using for

PLS model-3 (1403) D) correlation plot between observed and predicted values using for PLS model-4(7527)

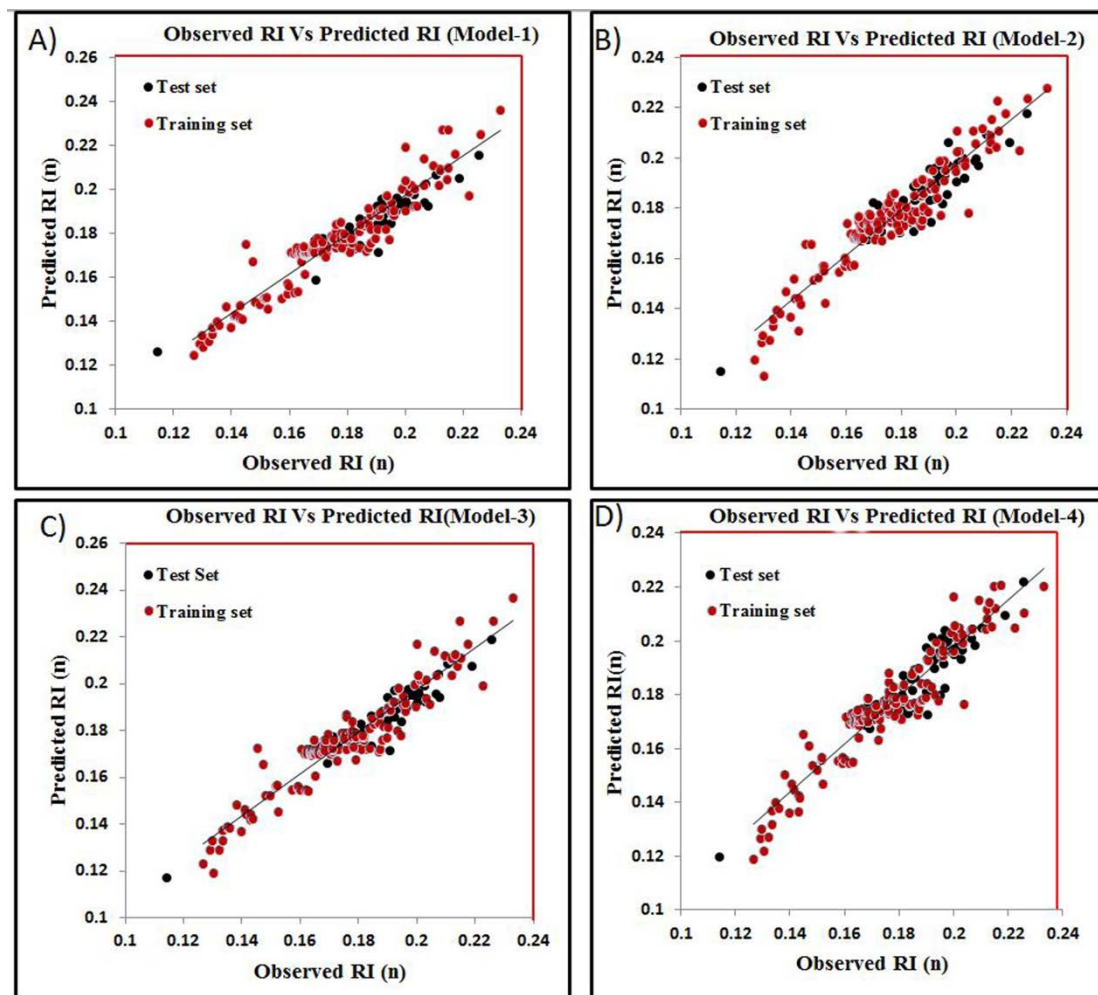


Figure S2 Variable importance plot (VIP) of all the obtained four QSPR models for the prediction of refractive indices of diverse polymers. A] VIP plot for Model-1, B] VIP plot for Model-2, C] VIP plot for Model-3 and D] VIP plot for Model-4. As we can see that

the variable MLFER_E has highest impact on response in model 1; Mi has the highest relative importance to the response in model 2, 3 and 4. The least important descriptor in all the generated models are B01[O-Si].

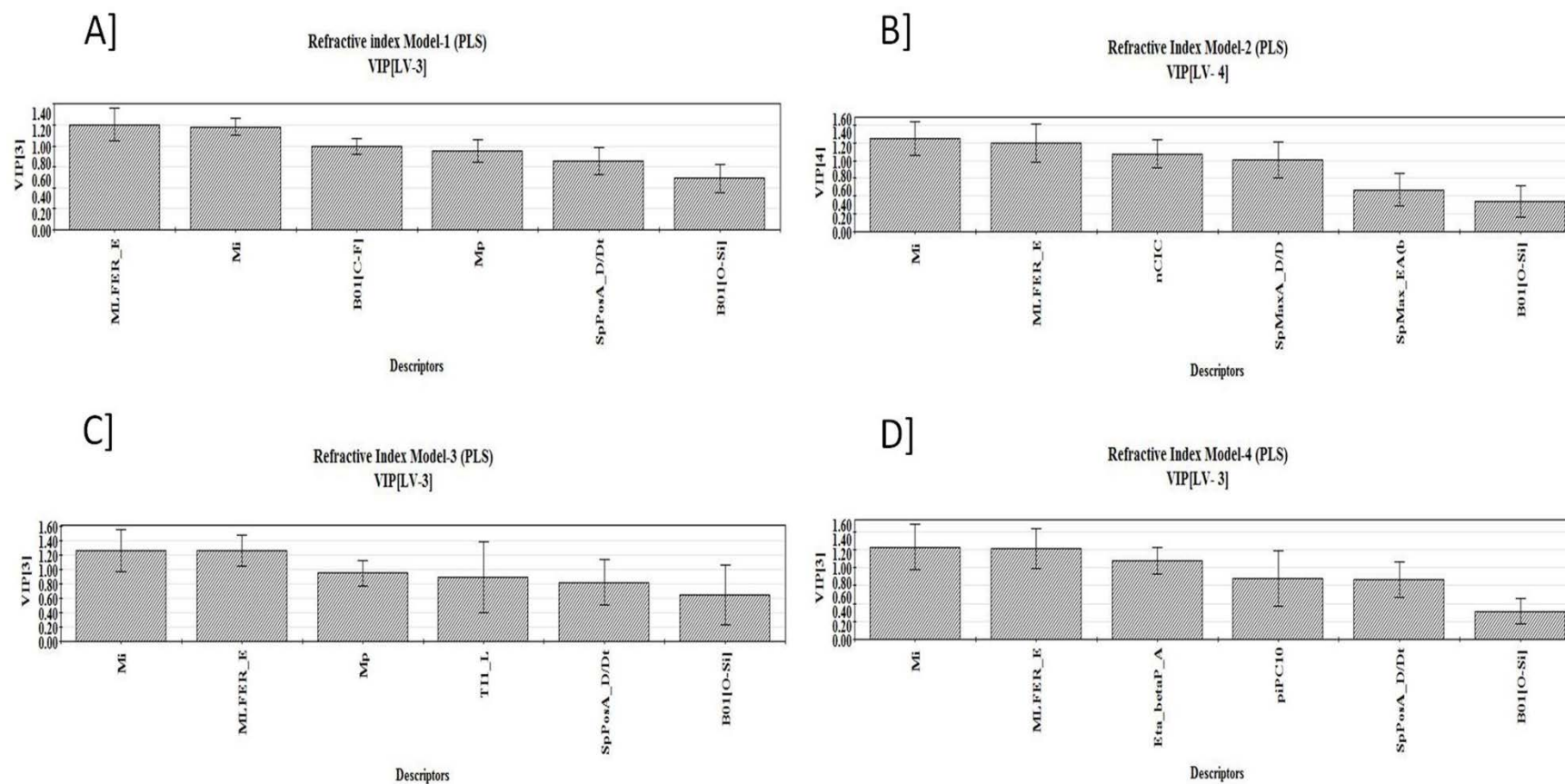


Figure S3 Loading plots of finally selected four QSPR models for the prediction of refractive indices of diverse polymers. A) Loading plot for Model-1, B) Loading plot for Model-2, C) Loading plot for Model-3 and D) Loading plot for Model-4. Analysis of each

individual plots, we can conclude that the variable MLFER_E is exert high influence in model 1 and variable <Mi> showed high influence in equation of rest of the three model, finally the least influential descriptor in all the finally selected QSPR models are B01[O-Si].

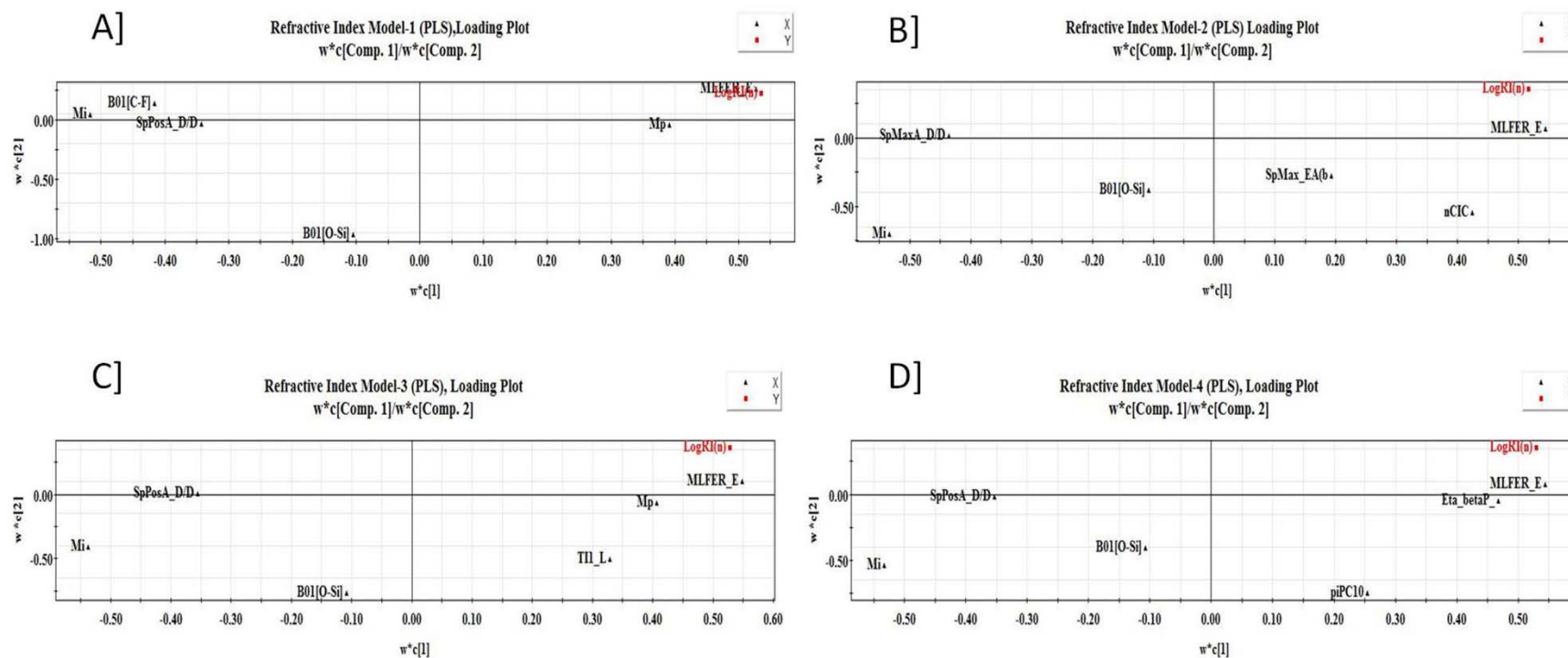


Figure S4 The results of Y-Randomization validation for investigated endpoint of finally selected four QSPR models A] Y-randomization plot for Model-1, B Y-randomization plot for Model-2, C] Y-randomization plot for Model-3 and D] Y-randomization

plot

for

Model-4.

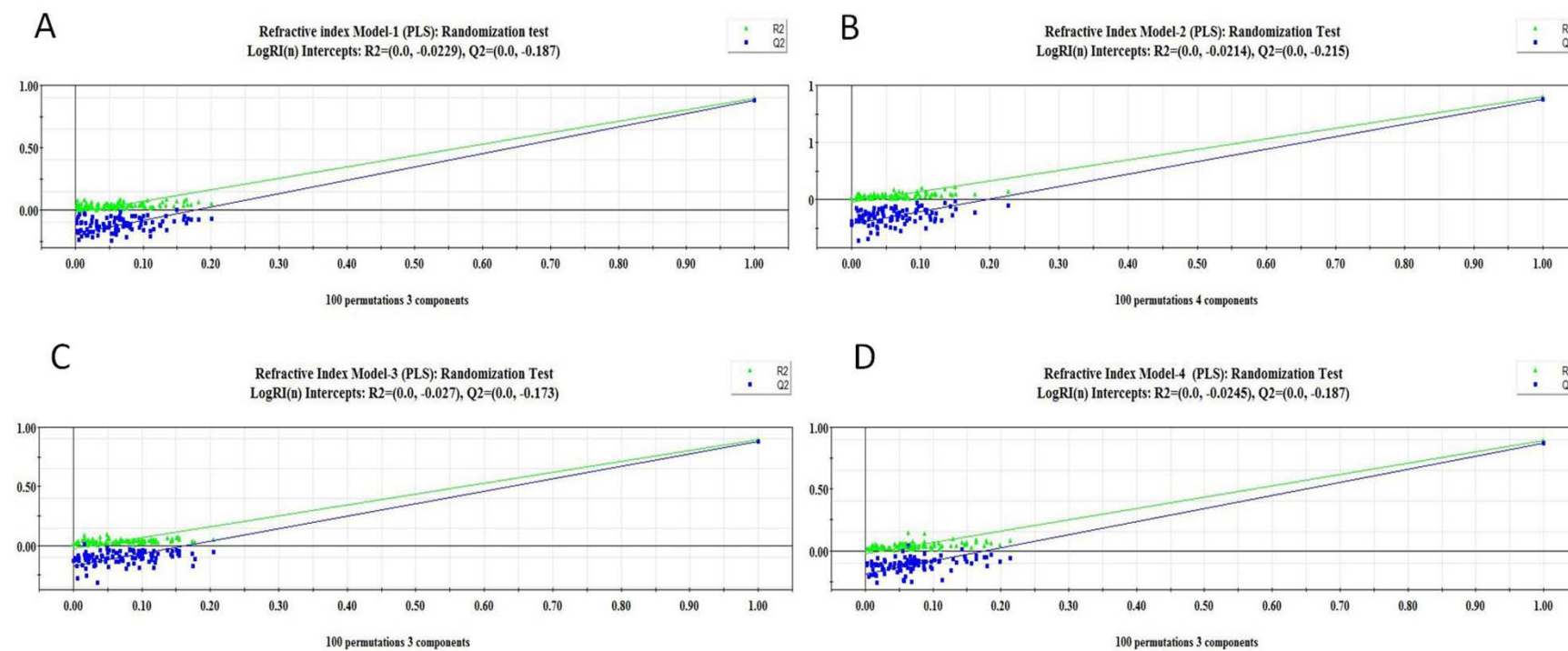


Figure S5 DModX values of the test set compounds at 99% confidence level of the generated four individual models for refractivity of the polymers. The horizontal red line signifies the critical DModX value (0.05, 0.0099, 0.0099, 0.0099 for each individual model) at the 99% confidence level.

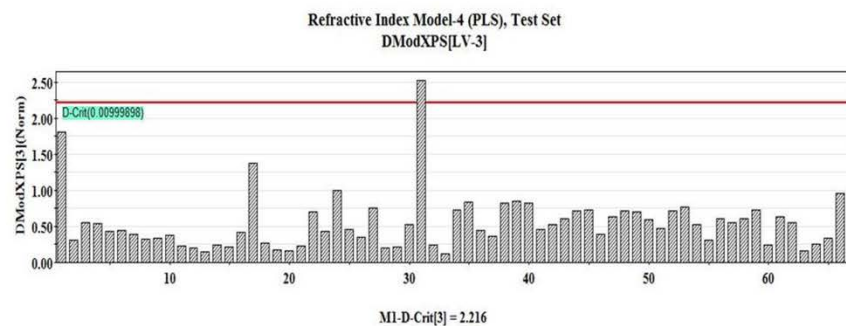
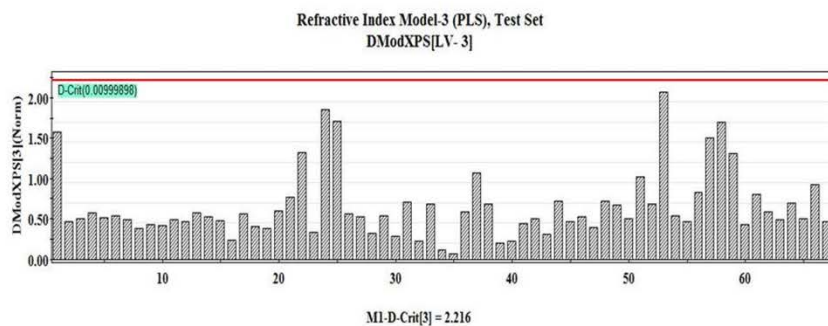
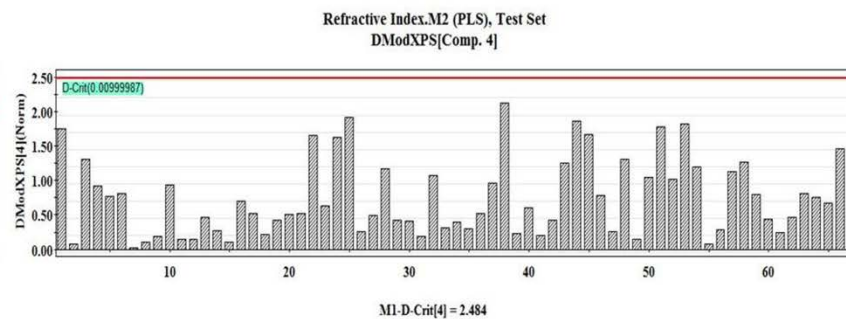
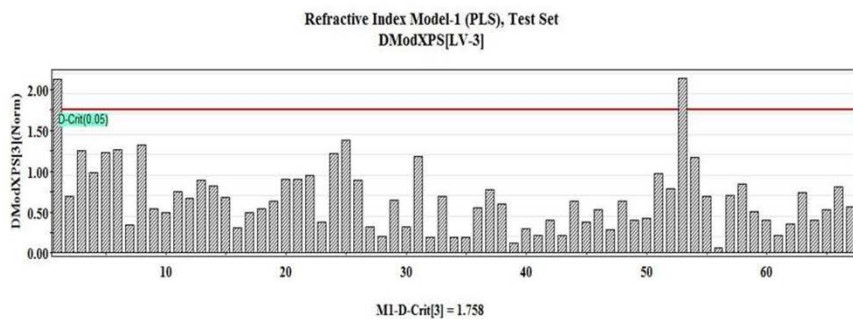


Figure S6 DModX values of the training set compounds at 99% confidence level of the generated four individual models for refractivity of the polymers. The horizontal red line signifies the critical DModX value (0.05, 0.0099, 0.0099, and 0.0099 for each individual model) at the 99% confidence level

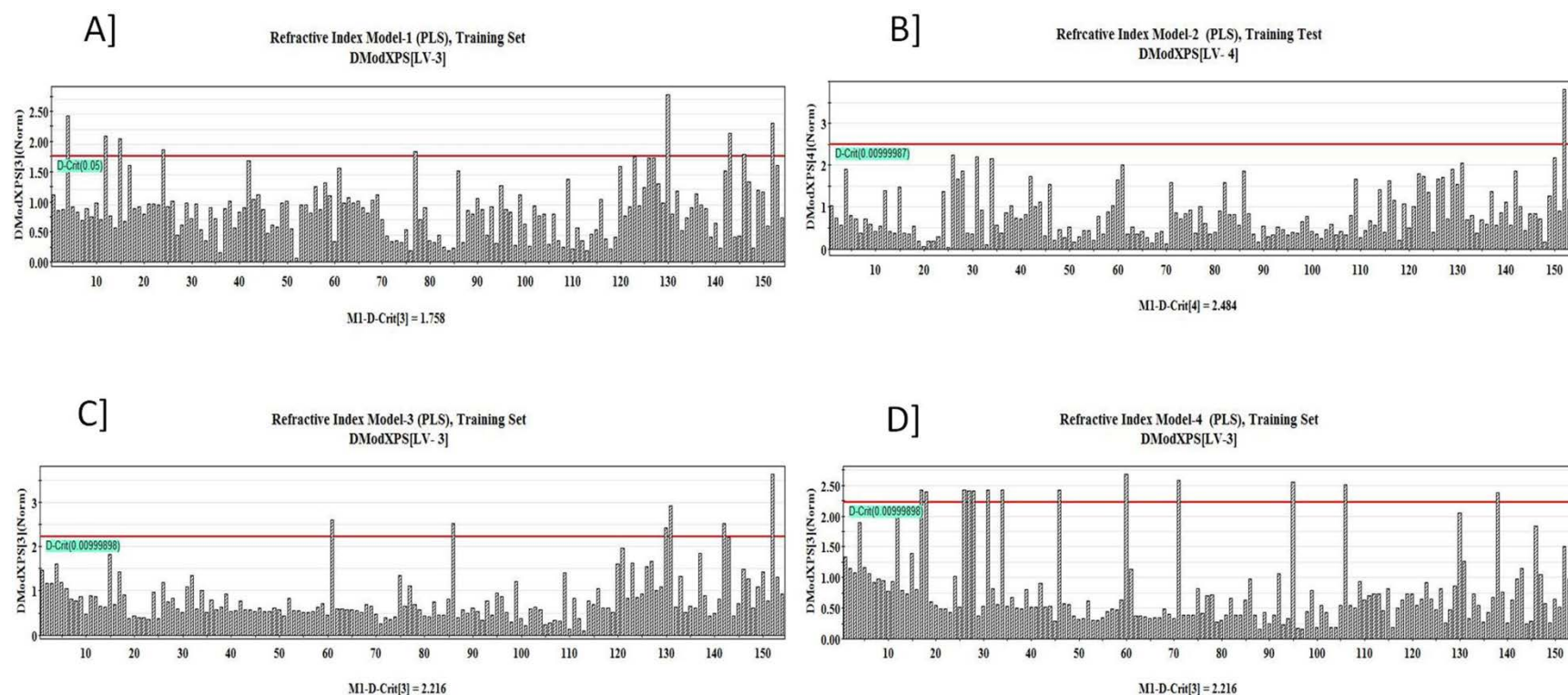


Table S2 The true external set polymers and their experimental refractive values, transformed logarithmic values and predicted refractivity obtained from four consensus model 3

sr.no	ID	Polymer	Refractive Index	log_RI	CM 3_Predicted RI (n)
229	2	poly[2,2,3,3-tetrafluoro-3-(heptafluoropropoxy)propyl acrylate]	1.346	0.129045	0.12974
230	3	poly[2,2,3,3-tetrafluoro-3-(pentafluoroethoxy)propyl acrylate]	1.348	0.12969	0.1329
231	7	poly[2,2,3,3-tetrafluoro-3-(trifluoromethoxy)propyl acrylate]	1.36	0.133539	0.13676
232	8	poly(vinyl pentafluoropropionate)	1.364	0.134814	0.14027
233	10	poly(vinyl trifluoroacetate)	1.375	0.138303	0.146
234	11	poly(2,2,3,3,4,4,5,5-octafluoropentyl acrylate)	1.38	0.139879	0.13738
235	12	poly{oxy[(3,3,3-trifluoropropyl)(methyl)silanediy]}	1.383	0.140822	0.14381
236	15	poly[2-(2,2,3,3,4,4,4-heptafluorobutoxy)ethyl acrylate]	1.39	0.143015	0.14506
237	16	poly(2,2,3,4,4,4-hexafluorobutyl acrylate)	1.392	0.143639	0.1415
238	17	poly(methylsiloxane)	1.397	0.145196	0.16543
239	20	poly[2-(1,1,2,2-tetrafluoroethoxy)ethyl acrylate]	1.412	0.149835	0.14763
240	22	poly[2-(trifluoroethoxy)ethyl acrylate]	1.419	0.151982	0.15091
241	23	poly(1,1-difluoroethylene)	1.42	0.152288	0.14529
242	24	poly(trifluorochloroethylene)	1.425	0.153815	0.14157
243	25	poly(dimethylsiloxane)	1.43	0.155336	0.16539
244	28	poly(oxymethyloctadecylsilanediyl)	1.443	0.159266	0.15718
245	32	poly(oxymethylhexadecylsilanediyl)	1.451	0.161667	0.15746

246	33	poly(ethoxyethylene)	1.454	0.162564	0.16799
247	34	poly(oxymethyltetradecylsilanediyl)	1.455	0.162863	0.15781
248	35	poly(oxyethylene)	1.4563	0.163251	0.16918
249	43	poly(vinyl n-octyl ether)	1.4613	0.164739	0.17087
250	44	poly(vinyl 2-ethylhexyl ether)	1.4626	0.165126	0.17048
251	48	poly(oxyhydroxy-3-methacryloyloxypropylsilylene)	1.463	0.165244	0.17181
252	49	poly(tert-butyl methylacrylate)	1.4638	0.165482	0.1711
253	50	poly (vinyl n-dodecyl ether)	1.464	0.165541	0.17024
254	56	poly (vinyl methyl ether)	1.467	0.16643	0.17091
255	58	poly(oxyoctamethylene)	1.469	0.167022	0.17149
257	65	poly(vinyl sec-butyl ether)	1.474	0.168497	0.16891
258	69	poly(hexamethylene sebacamide)	1.475	0.168792	0.20025
260	72	cellulose triacetate	1.475	0.168792	0.18302
263	84	poly(ethylene dimethacrylate)	1.4831	0.17117	0.18135
267	87	poly(ethylene maleate)	1.484	0.171434	0.18174
268	88	poly(ethyl methylacrylate)	1.485	0.171726	0.17159
270	92	poly(triethylcarbinyl methacrylate)	1.4889	0.172866	0.17146
271	93	poly(methyl methylacrylate)	1.4893	0.172982	0.17127
272	94	poly(2-decyl-1,4-butadiene)	1.4899	0.173157	0.17242
273	95	poly(ethylglycolate methacrylate)	1.4903	0.173274	0.17181
276	102	poly(sec-butyl α -chloroacrylate)	1.5	0.176091	0.17805
277	105	poly(1-heptyl-1-butenylene)	1.5	0.176091	0.17277

278	106	poly(2-bromo-4-(trifluoromethyl)styrene)	1.5	0.176091	0.18068
279	107	poly(2-isopropyl-1,4-butadiene)	1.502	0.17667	0.17566
280	108	poly(ethyl α -chloroacrylate)	1.502	0.17667	0.17674
281	112	poly(2-t-butyl-1,4-butadiene)	1.506	0.177825	0.17513
282	113	poly(ethylene glycol) dimethacrylate	1.5063	0.177911	0.18135
283	115	poly(cyclohexanediol-1,4-dimethylacrylate)	1.5067	0.178027	0.18313
284	119	poly(ethylethylene)	1.5125	0.179695	0.17271
285	122	poly(N-butylmethacrylamide)	1.5135	0.179982	0.17357
287	126	poly[2-(diethylamino)ethyl methacrylate]	1.5174	0.1811	0.17116
290	134	poly[N-(2-methoxyethyl)methacrylamide]	1.5246	0.183156	0.17116
291	135	trans-1,4-poly-2,3-dimethylbutadiene	1.525	0.18327	0.17679
292	138	poly[2-chloro-1-(chloromethyl)ethyl methacrylate]	1.527	0.183839	0.17547
293	139	poly(acrolein)	1.529	0.184407	0.1841
294	141	poly(N,N'-hexamethylenedipamide)	1.53	0.184691	0.17786
295	142	poly[isobutene-alt-(N-methylmaleimide)]	1.53	0.184691	0.17982
296	143	poly[imino(1-oxohexamethylene)]	1.53	0.184691	0.18557
297	144	poly(iminoadipoyliminohexane-1,6-diyl)	1.53	0.184691	0.17498
298	145	poly(iminohexane-1,6-diyliminodecanedioyl)	1.53	0.184691	0.17789
299	146	poly(cyclohexyl α -chloroacrylate)	1.532	0.185259	0.18377
300	151	poly(1-phenylamyl methacrylate)	1.5396	0.187408	0.18695
301	152	poly(N-methylmethacrylamide)	1.5398	0.187464	0.1745
302	159	poly(vinyl furan)	1.55	0.190332	0.19415

303	161	poly(isopropyl methylacrylate)	1.552	0.190892	0.17121
304	168	poly(4,4-heptane bis[4-phenyl] carbonate)	1.5602	0.19318	0.19807
305	169	poly[1-(o-chlorophenyl)ethyl methacrylate]	1.5624	0.193792	0.19428
306	170	poly[styrene-alt-(maleic anhydride)]	1.564	0.194237	0.19901
307	172	poly(2,2,4-trimethylhexamethylene terephthalamide)	1.566	0.194792	0.19096
308	173	poly(oxycarbonyloxy-1,4-phenylene-1,3-dimethylbutylidene-1,4-phenylene)	1.5671	0.195097	0.19896
309	178	poly[1,1-(2-methylpropane) bis(4-phenyl)carbonate]	1.5702	0.195955	0.20162
310	179	poly(o-methoxyphenyl methacrylate)	1.5705	0.196038	0.19468
311	180	poly(phenyl methylacrylate)	1.5706	0.196066	0.19281
312	184	poly(2,2-pentane bis[4-phenyl] carbonate)	1.5745	0.197143	0.20038
313	186	poly[oxy(2,6-dimethyl-1,4-phenylene)]	1.575	0.197281	0.20435
314	187	poly(vinyl benzoate)	1.5775	0.197969	0.2012
315	188	poly{2,2-propane bis[4-(2-methylphenyl)] carbonate}	1.5783	0.19819	0.19927
316	189	poly(1,1-butane bis[4-phenyl] carbonate)	1.5792	0.198437	0.20267
317	192	poly[2,2-butane bis(4-phenyl)carbonate]	1.5827	0.199399	0.20179
318	194	poly(bisphenol A carbonate)	1.585	0.200029	0.20331
319	196	poly[4,4'-(3,3',5,5'-tetrachloro)cyclohexylidenediphenylene carbonate]	1.5858	0.200248	0.20715
321	198	poly(2-methylstyrene)	1.5874	0.200686	0.1981
322	199	poly(1,1-cyclohexane bis[4-phenyl] carbonate)	1.59	0.201397	0.2039
323	200	poly{2,2-propane bis[4-(2-chlorophenyl)] carbonate}	1.59	0.201397	0.20465

325	202	poly(o-methoxystyrene)	1.5932	0.20227	0.19882
326	204	poly[1,1-ethane bis(4-phenyl)carbonate]	1.5937	0.202407	0.20504
327	207	poly(N-benzylmethacrylamide)	1.5965	0.203169	0.19652
328	209	Poly[1,1-cyclopentane bis(4-phenyl) carbonate]	1.5993	0.20393	0.20085
329	210	poly(1,1-dichloroethylene)	1.6	0.20412	0.19081
330	211	poly[bis(o-chlorodiphenyl)methyl methacrylate]	1.604	0.205204	0.20611
331	212	poly[2,2-propane bis{4-(2,6-dichlorophenyl)} carbonate]	1.6056	0.205637	0.21909
332	213	poly{oxycarbonyloxybis[1,4-(3,5-dichlorophenylene)]}	1.6056	0.205637	0.21061
333	217	poly(1,1-[1-phenyl ethane] bis[4-phenyl] carbonate)	1.613	0.207634	0.21091
334	218	poly{2,2-propane bis[4-(2,6-dibromophenyl)]carbonate}	1.6147	0.208092	0.22886
335	220	poly(N-vinylphthalimide)	1.62	0.209515	0.2117
336	221	poly(2,6-dichloro styrene)	1.6248	0.2108	0.20453
337	222	poly(chloro-p-xylylene)	1.629	0.211921	0.20433
338	224	poly(alpha-naphthylmethyl methacrylate)	1.63	0.212188	0.20817
339	225	poly(sulfone)	1.633	0.212986	0.21504
340	229	poly[diphenylmethane bis(4-phenyl)carbonate]	1.6539	0.218509	0.21203
341	232	poly(alpha-vinyl naphthalene)	1.6818	0.225774	0.22153

Table S3 The quality of predictions for diverse set of external set polymer compounds based on the prediction reliability score (PRI) using four individual models (green color represents good prediction and yellow color denotes moderate quality prediction of individual compounds)

External Comp No.	Polymer	Log_RI	Model-1 YPred	Model-2 YPred	Model-3 YPred	Model-4 YPred
229	poly[2,2,3,3-tetrafluoro-3-(heptafluoropropoxy)propyl acrylate]	0.129045	0.129745	0.12664	0.128803	0.126315
230	poly[2,2,3,3-tetrafluoro-3-(pentafluoroethoxy)propyl acrylate]	0.12969	0.1329	0.130804	0.132367	0.130871
231	poly[2,2,3,3-tetrafluoro-3-(trifluoromethoxy)propyl acrylate]	0.133539	0.136917	0.136764	0.137116	0.136578
232	poly(vinyl pentafluoropropionate)	0.134814	0.139648	0.140267	0.138749	0.139936
233	poly(vinyl trifluoroacetate)	0.138303	0.145996	0.149337	0.147435	0.149621
234	poly(2,2,3,3,4,4,5,5-octafluoropentyl acrylate)	0.139879	0.137073	0.137383	0.137086	0.136007
235	poly{oxy[(3,3,3-trifluoropropyl)(methyl)silanediy]}]	0.140822	0.139207	0.143809	0.140911	0.139088
236	poly[2-(2,2,3,3,4,4,4-heptafluorobutoxy)ethyl acrylate]	0.143015	0.141115	0.145057	0.144286	0.142267
237	poly(2,2,3,3,4,4,4-hexafluorobutyl acrylate)	0.143639	0.140831	0.141498	0.141951	0.141585

238	poly(methylsiloxane)	0.145196	0.174629	0.165426	0.172415	0.164872
239	poly[2-(1,1,2,2-tetrafluoroethoxy)ethyl acrylate]	0.149835	0.147627	0.152088	0.151858	0.151678
240	poly[2-(trifluoroethoxy)ethyl acrylate]	0.151982	0.150907	0.154919	0.156476	0.156432
241	poly(1,1-difluoroethylene)	0.152288	0.145286	0.142067	0.144878	0.146607
242	poly(trifluorochloroethylene)	0.153815	0.146827	0.13127	0.141571	0.136489
243	poly(dimethylsiloxane)	0.155336	0.167314	0.165393	0.165118	0.160858
244	poly(oxymethyloctadecylsilanediyl)	0.159266	0.153071	0.157179	0.155676	0.154533
245	poly(oxymethylhexadecylsilanediyl)	0.161667	0.153489	0.15746	0.155184	0.154744
246	poly(ethoxyethylene)	0.162564	0.170729	0.167991	0.169887	0.169636
247	poly(oxymethyltetradecylsilanediyl)	0.162863	0.154007	0.157808	0.154886	0.155
248	poly(oxyethylene)	0.163251	0.173051	0.169183	0.171655	0.172828
249	poly(vinyl n-octyl ether)	0.164739	0.170326	0.167428	0.17087	0.168605
250	poly(vinyl 2-ethylhexyl ether)	0.165126	0.170144	0.170151	0.170484	0.168422
251	poly(oxyhydroxy-3- methacryloyloxypropylsilylene)	0.165244	0.166017	0.171808	0.165439	0.167277
252	poly(tert-butyl methylacrylate)	0.165482	0.171104	0.17499	0.171176	0.171577
253	poly (vinyl n-dodecyl ether)	0.165541	0.170236	0.167147	0.172048	0.168339
254	poly (vinyl methyl ether)	0.16643	0.170913	0.167902	0.169846	0.170104

255	poly(oxyoctamethylene)	0.167022	0.171908	0.173941	0.171489	0.173593
257	poly(vinyl sec-butyl ether)	0.168497	0.170336	0.170453	0.169855	0.168908
258	poly(hexamethylene sebacamide)	0.168792	0.194218	0.198185	0.19723	0.200247
260	cellulose triacetate	0.168792	0.179924	0.183024	0.179026	0.18098
263	poly(ethylene dimethacrylate)	0.17117	0.178816	0.181348	0.180457	0.182664
267	poly(ethylene maleate)	0.171434	0.177432	0.179259	0.177838	0.181745
268	poly(ethyl methylacrylate)	0.171726	0.171587	0.174572	0.171336	0.172765
270	poly(triethylcarbinyl methacrylate)	0.172866	0.170861	0.175192	0.171456	0.170703
271	poly(methyl methylacrylate)	0.172982	0.171726	0.174872	0.171269	0.1734
272	poly(2-decyl-1,4-butadiene)	0.173157	0.173497	0.171957	0.175331	0.172419
273	poly(ethylglycolate methacrylate)	0.173274	0.171813	0.173928	0.172246	0.173638
276	poly(sec-butyl α -chloroacrylate)	0.176091	0.178581	0.178053	0.178958	0.175255
277	poly(1-heptyl-1-butenylene)	0.176091	0.17405	0.172765	0.175077	0.173328
278	poly(2-bromo-4-(trifluoromethyl)styrene)	0.176091	0.18068	0.184666	0.186651	0.184507
279	poly(2-isopropyl-1,4-butadiene)	0.17667	0.175344	0.17613	0.175664	0.175448
280	poly(ethyl α -chloroacrylate)	0.17667	0.177342	0.176741	0.176811	0.174905
281	poly(2-t-butyl-1,4-butadiene)	0.177825	0.174764	0.178934	0.175126	0.174582
282	poly(ethylene glycol) dimethacrylate	0.177911	0.178816	0.181348	0.180457	0.182664

283	poly(cyclohexanediol-1,4-dimethylacrylate)	0.178027	0.183783	0.183129	0.183914	0.18552
284	poly(ethylethylene)	0.179695	0.173117	0.170101	0.17271	0.171793
285	poly(N-butylmethacrylamide)	0.179982	0.173392	0.175229	0.172955	0.173571
287	poly[2-(diethylamino)ethyl methacrylate]	0.1811	0.17116	0.172862	0.171315	0.170827
290	poly[N-(2-methoxyethyl)methacrylamide]	0.183156	0.17116	0.172862	0.171315	0.170827
291	trans-1,4-poly-2,3-dimethylbutadiene	0.18327	0.176299	0.179516	0.17653	0.176795
292	poly[2-chloro-1-(chloromethyl)ethyl methacrylate]	0.183839	0.180563	0.178047	0.180484	0.175471
293	poly(acrolein)	0.184407	0.184098	0.182021	0.184951	0.19279
294	poly(N,N'-hexamethyleneadipamide)	0.184691	0.176862	0.176548	0.177859	0.177404
295	poly[isobutene-alt-(N-methylmaleimide)]	0.184691	0.177058	0.176932	0.179823	0.177095
296	poly[imino(1-oxohexamethylene)]	0.184691	0.186084	0.190012	0.185568	0.186775
297	poly(iminoadipoyliminohexane-1,6-diyl)	0.184691	0.174204	0.174414	0.173221	0.174979
298	poly(iminohexane-1,6-diyliminodecanedioyl)	0.184691	0.176959	0.176657	0.177891	0.177507
299	poly(cyclohexyl α -chloroacrylate)	0.185259	0.183773	0.18219	0.183612	0.180748

300	poly(1-phenylamyl methacrylate)	0.187408	0.186199	0.186952	0.186625	0.189676
301	poly(N-methylmethacrylamide)	0.187464	0.173388	0.175257	0.172024	0.174501
302	poly(vinyl furan)	0.190332	0.192431	0.19533	0.194155	0.197377
303	poly(isopropyl methylacrylate)	0.190892	0.171283	0.174246	0.171206	0.172066
304	poly(4,4-heptane bis[4-phenyl] carbonate)	0.19318	0.199942	0.19786	0.198068	0.20041
305	poly[1-(o-chlorophenyl)ethyl methacrylate]	0.193792	0.192465	0.194517	0.193098	0.194284
306	poly[styrene-alt-(maleic anhydride)]	0.194237	0.201314	0.199005	0.201764	0.204884
307	poly(2,2,4-trimethylhexamethylene terephthalamide)	0.194792	0.190489	0.190964	0.189771	0.192795
308	poly(oxycarbonyloxy-1,4-phenylene- 1,3-dimethylbutylidene-1,4-phenylene)	0.195097	0.200529	0.198493	0.198958	0.201265
309	poly[1,1-(2-methylpropane) bis(4- phenyl)carbonate]	0.195955	0.202516	0.19953	0.201621	0.204126
310	poly(o-methoxyphenyl methacrylate)	0.196038	0.188848	0.194394	0.189492	0.194677
311	poly(phenyl methylacrylate)	0.196066	0.191282	0.192814	0.192454	0.197918
312	poly(2,2-pentane bis[4-phenyl] carbonate)	0.197143	0.201609	0.199735	0.20038	0.202783
313	poly[oxy(2,6-dimethyl-1,4-phenylene)]	0.197281	0.196794	0.203641	0.198971	0.204349

314	poly(vinyl benzoate)	0.197969	0.202675	0.201196	0.206071	0.201408
315	poly{2,2-propane bis[4-(2-methylphenyl)] carbonate}	0.19819	0.199403	0.199415	0.19822	0.199271
316	poly(1,1-butane bis[4-phenyl] carbonate)	0.198437	0.202667	0.199554	0.201707	0.204159
317	poly[2,2-butane bis(4-phenyl)carbonate]	0.199399	0.202638	0.200947	0.201792	0.204255
318	poly(bisphenol A carbonate)	0.200029	0.203795	0.202167	0.203305	0.205737
319	poly[4,4'-(3,3',5,5'-tetrachloro)cyclohexylidenediphenylene carbonate]	0.200248	0.217032	0.207147	0.212118	0.204019
321	poly(2-methylstyrene)	0.200686	0.195984	0.202813	0.198102	0.198102
322	poly(1,1-cyclohexane bis[4-phenyl] carbonate)	0.201397	0.206977	0.200413	0.203904	0.205755
323	poly{2,2-propane bis[4-(2-chlorophenyl)] carbonate}	0.201397	0.208454	0.204647	0.20735	0.204257
325	poly(o-methoxystyrene)	0.20227	0.192132	0.199975	0.193419	0.198817
326	poly[1,1-ethane bis(4-phenyl)carbonate]	0.202407	0.205198	0.202383	0.205042	0.207484
327	poly(N-benzylmethacrylamide)	0.203169	0.191585	0.19177	0.191855	0.196525

328	Poly[1,1-cyclopentane bis(4-phenyl) carbonate]	0.20393	0.208327	0.200853	0.205741	0.207983
329	poly(1,1-dichloroethylene)	0.20412	0.192436	0.177918	0.190814	0.176279
330	poly[bis(o-chlorodiphenyl)methyl methacrylate]	0.205204	0.208621	0.204603	0.207627	0.206108
331	poly[2,2-propane bis{4-(2,6- dichlorophenyl)}carbonate]	0.205637	0.226503	0.219095	0.226125	0.211844
332	poly{oxycarbonyloxybis[1,4-(3,5- dichlorophenylene)]}	0.205637	0.215613	0.210608	0.213988	0.205934
333	poly(1,1-[1-phenyl ethane] bis[4- phenyl] carbonate)	0.207634	0.214847	0.205413	0.210906	0.210786
334	poly{2,2-propane bis[4-(2,6- dibromophenyl)]carbonate}	0.208092	0.230041	0.221916	0.228857	0.215967
335	poly(N-vinylphthalimide)	0.209515	0.210581	0.211726	0.211698	0.21486
336	poly(2,6-dichloro styrene)	0.2108	0.206383	0.209002	0.207968	0.204528
337	poly(chloro-p-xylylene)	0.211921	0.201618	0.206207	0.203495	0.204326
338	poly(alpha-naphthylmethyl methacrylate)	0.212188	0.207583	0.208174	0.207949	0.20926
339	poly(sulfone)	0.212986	0.226515	0.215036	0.21212	0.214352
340	poly[diphenylmethane bis(4- phenyl)carbonate]	0.218509	0.225169	0.212034	0.217293	0.208913

341	poly(alpha-vinyl naphthalene)	0.225774	0.215796	0.21894	0.21865	0.221531
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