

Supplementary Material

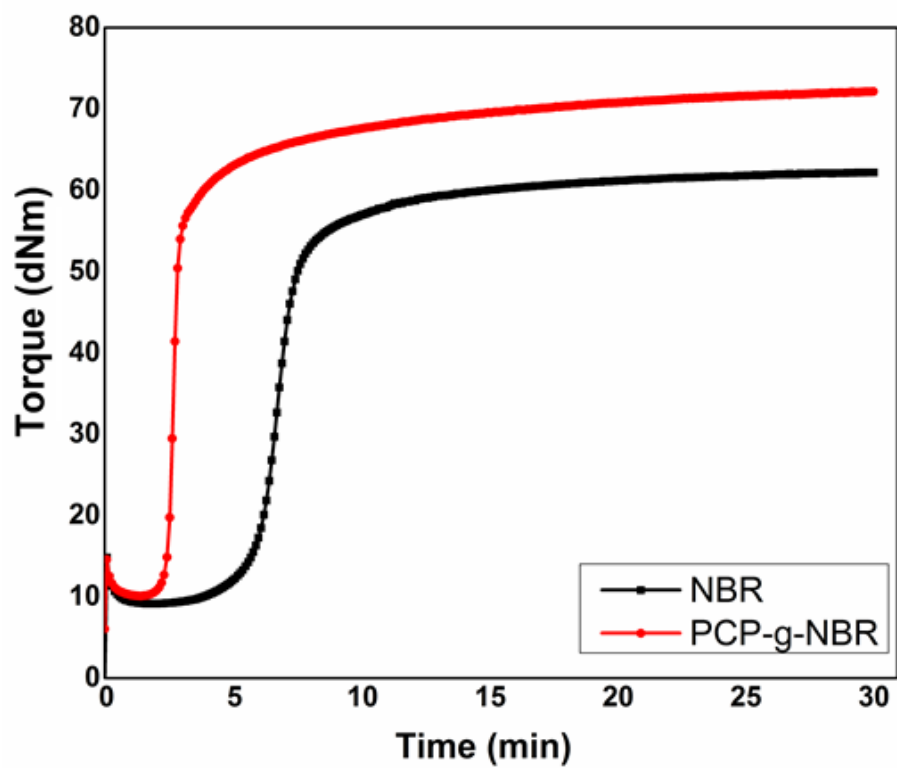


Figure S1. Rheographs of the rubber vulcanizates. NBR: acrylonitrile butadiene rubber; PCP: phosphorylated cardanol prepolymer.

Table S2. Cure characteristics of NBR and PCP functionalized NBR vulcanizates.

Sample	Minimum torque, dNm	Maximum torque, dNm	Scorch time, t_2 , min	Optimum cure time, t_{90} , min	Cure rate index, min ⁻¹
NBR ^a	8.96	62.19	4.15	11.02	14.55
PCP- <i>g</i> -NBR ^a	9.92	71.97	2.11	7.42	18.83

^aCure characteristics: Rubber mixes were conditioned at nearly 25°C for 24 h prior to cure assessment on a Monsanto Oscillating Disc Rheometer-100S (Alpha Technologies, Hudson, Ohio, USA), according to ASTM D-1646. NBR: acrylonitrile butadiene rubber; PCP: phosphorylated cardanol prepolymer.

Table S3. Percentage hemolysis of RBCs incubated with the different concentrations of

NBR and PCP functionalized NBR.

Hemolysis Experiment

NBR: acrylonitrile butadiene rubber; PCP: phosphorylated cardanol prepolymer.

Concentration ($\mu\text{g ml}^{-1}$)	NBR	PCP- <i>g</i> -NBR	Positive Control	Negative Control
5	.0019	.002	100	0
50	.081	.080		
100	.272	.270		