

Influence of Sulfur-Curing Conditions on the Dynamics and Crosslinking of Rubber Networks: A Time-Domain NMR Study

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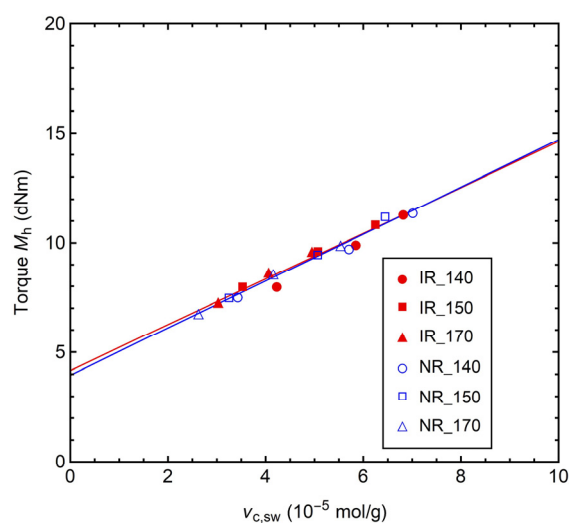


Figure S1. Maximum torque (M_h) determined by MDR measurements *vs* $v_{c,sw}$.

Table S1. Best fit parameters obtained from the analysis of the CPMG relaxation curves of the sulfur cured IR samples, performed as described in paragraph 2.5 of the main text.

Sample	$T_{2,\text{weib}}$ (ms)	C_{weib} (%)	β	$T_{2,\text{exp}}$ (ms)	C_{exp} (%)
IR_140_S1	1.15	81	1.5	2.95	19
IR_140_S2	0.98	84	1.5	3.34	16
IR_140_S3	0.89	82	1.5	2.76	18
IR_150_S1	1.20	84	1.5	2.95	16
IR_150_S2	1.03	86	1.4	2.77	14
IR_150_S3	0.92	81	1.5	2.64	19
IR_170_S1	1.26	84	1.5	2.92	16
IR_170_S2	1.11	84	1.4	2.76	16
IR_170_S3	0.98	83	1.4	2.69	17

Table S2. Best fit parameters obtained from the analysis of the CPMG relaxation curves of the sulfur cured NR samples, performed as described in paragraph 2.5 of the main text.

Sample	$T_{2,\text{weib}}$ (ms)	C_{weib} (%)	β	$T_{2,\text{exp}}$ (ms)	C_{exp} (%)
NR_140_S1	1.20	81	1.6	2.51	19
NR_140_S2	0.95	85	1.5	2.49	15
NR_140_S3	0.86	84	1.5	2.28	16
NR_150_S1	1.24	87	1.6	3.54	13
NR_150_S2	1.00	84	1.5	2.73	16
NR_150_S3	0.89	88	1.5	2.92	12
NR_170_S1	1.25	88	1.5	3.42	12
NR_170_S2	1.09	88	1.5	3.43	12
NR_170_S3	0.94	86	1.5	2.65	14

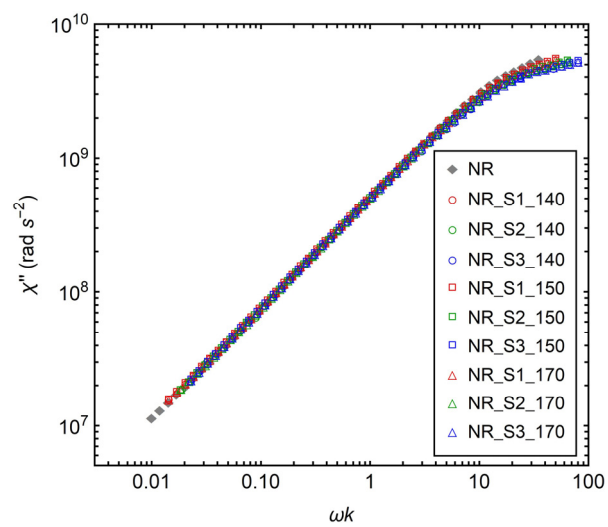


Figure S2. NMR susceptibility (χ'') master curves of the indicated NR samples obtained as described in paragraph 2.6 of the main text.