

REAL RUBBER HIGH PERFORMANCE SUPERBOUNCE



TYPICAL PHYSICAL PROPERTIES

May 2004

PHYSICAL	TEST METHOD	SUPERBOUNCE 57	SUPERBOUNCE 90
COLOR		BLACK	BLACK
POLYMER		NEO/SBR	NEO/SBR
DENSITY, Approx. (lbs/cu.ft)	ASTM-D-1056-00	14 pcf	45 pcf
DUROMETER, Shore 00	ASTM-D-2240	56 - 62	80 - 90
OIL IMMERSION, Ref Fuel B	ASTM-D-1056-00	----	20%
COMPRESSION DEFLECT. @ 25% Compression	ASTM-D-1056-00	9 - 14 psi	75 - 85 psi
COMPRESSION DEFLECT. @ 50% Compression	ASTM-D-1056-00	27 - 33 psi	----
ELONGATION	ASTM-D-2000	250%	862%
TENSILE STRENGTH	ASTM-D-2000	190 psi	1275 psi
TEAR DIE C	ASTM-D-3575 Suf.G	20 lb/in	240 lb/in
WATER ABSORPTION, By Weight (Max.)	ASTM-D-1056-00	< 2%	< 1%
HEAT AGING, (7 days @158°F) CD % Max. Change	ASTM-D-1056-00	30	30
COMPRESSION RECOVERY	ASTM-D-1056-00 Recovery Rates Based on ASTM Compression Set Test Methods	5 sec. 89% 60 sec. 90% 5 min. 94% 60 min. 94% 24 hrs. 95%	5 sec. 90% 60 sec. 93% 5 min. 95% 60 min. 95% 24 hrs. 96%
COMPRESSION SET	ASTM-D-1056-00	5 sec. 18% 60 sec. 13% 5 min. 12% 60 min. 8% 24 hrs. 5%	5 sec. 20% 60 sec. 14% 5 min. 14% 60 min. 10% 24 hrs. 8%
G MAX RATING ¹ VERTICAL ENERGY IMPUT	ASTM-F-1292-99 6.6/FT SECOND 8.8/FT SECOND 10.5/FT SECOND	Test Report Available Upon Request	86 G's 163 G's 235 G's

¹ G MAX RATING MEASURES THE ABILITY OF A MATERIAL TO TRANSMIT ENERGY VERTICALLY (REBOUND) WHEN A CONTROLLED FORCE IS APPLIED. MRPC HAS DEVELOPED, IN CONJUNCTION WITH ASTM, A COMPUTERIZED ENERGY MEASURING FORMULA TO ACCURATELY MEASURE AND DESCRIBE THE ABILITY OF A DIE EJECTION MATERIAL TO TRANSMIT (RETURN) ENERGY. G MAX RESULTS MUST BE EVALUATED IN CONJUNCTION WITH OTHER PHYSICAL PROPERTIES SUCH AS TENSILE, COMPRESSION SET, AND COMPRESSION RECOVERY IN ORDER TO ACCURATELY PREDICT THE REPEATABILITY OF ENERGY TRANSFER OF A DIE EJECTION MATERIAL OVER MULTIPLE DIE IMPRESSIONS FOR AN EXTENDED PERIOD OF TIME.

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