REAL RUBBER HIGH PERFORMANCE
SUPERBOUNCE

TYPICAL PHYSICAL PROPERTIES

MONMOUTH
RUBBER & PLASTICS CORP.

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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