

Technical Data Sheet

Elastomeric Polyurethane Physical Properties

POLYMAX Formulations

<u>TEST SPECIFICATION</u>	<u>ASTM #</u>	<u>System A</u>	<u>System B</u>	<u>System C</u>
Durometer	D2240	90A	95A/54D	60D
100% Modulus	D412	1100 PSI	2000 PSI	3100 PSI
200% Modulus	D412	1400 PSI	2400 PSI	5800 PSI
300% Modulus	D412	1800 PSI	3200 PSI	---
Tensile Strength	D412	3000 PSI	7000 PSI	8700 PSI
Elongation	D412	530%	400%	280%
Tear Strength (Die C)	D1938	450 PLI	650 PLI	880 PLI
Tear Strength (Split)	D624	65 PLI	190 PLI	120 PLI
Bashore Rebound	D2632	59%	46%	50%
Compression Set	D395	19%	35%	40%
Brittleness Temp. (C)	---	-105	---	-100
Abrasion Resistance (NBS Index)	D1630	165	---	---

ASTM TEST METHODS

MODULUS (Tensile strength at a given elongation): The stress required to stretch the uniform cross section of a test specimen to a given elongation.

TENSILE STRENGTH: The maximum tensile stress applied stretching a specimen to reapture.

ELONGATION: The elongation at time of rupture.

TEAR STRENGTH (Die C): The force in pounds necessary to tear a test specimen.

TEAR STRENGTH (Nick), also Trouser Tear: The force in pounds necessary to propagate an initial tear across a sheeting specimen.

BASHORE REBOUND: The determination of impact resilience of material from measurement of the vertical rebound of a dropped weight.

COMPRESSION SET: The determination of amount of set a material exhibits after being subjected to a compressive stress of 25% deflection for 22 hours at 158F (70C).