



50 Shore A MDI Polyether Urethane

Application

This material is extremely flexible with a low hardness and has a high elongation. Due to the improved cut/ tear and abrasion resistance over rubber it can be used in dynamic applications where a flexible material is required. The low pressure liquid cast molding process offers lower cost tooling over traditional rubber molding processes. Typical colors of this material are grey or black. Some current applications include seals, hose reduces, etc.

Technical Data

Properties	Units	ASTM Test Method	Result
Shore A Hardness	A Scale	D-2240-04	58
Split Tear Strength	PLI	D-1938	52
Die C Tear Strength	PLI	D-624-00 Type C	
Tensile Strength	PSI	D-412-98a	1430
Ultimate Elongation	%	D-412-98a	760
100 % Modulus	PSI	D-412-98a	260
200% Modulus	PSI	D-412-98a	
300% Modulus	PSI	D-412-98a	520
Compression Set	%	D-395-03	25
Compression Defection	PSI	D-575	
2%	PSI	D-575	
5%	PSI	D-575	
10%	PSI	D-575	
15%	PSI	D-575	
20%	PSI	D-575	
25%	PSI	D-575	
50%	PSI	D-575	
Taber Abrasion	MG Loss	D-4060-01	
Resilience	%	D-2632-01	
Bayshore Rebound	%	D-2636	62
FDA Dry Food Grade Approved			Yes
FDA Wet Food Grade Approved			No
Low Temperature Brittleness	°C (°F)	D-2137-05 Method B	
Specific Gravity	G/cm ³		1.1

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