



## **65 Shore A MDI Polyester Urethane**

### **Application**

This material has higher mechanical properties including improved cut/ tear and abrasion resistance over rubber so it is suited for dynamic applications where a flexible material is required. This material can be used to control shock and vibration due to its high impact resistance. The low pressure liquid cast molding process offers lower cost tooling over traditional rubber molding processes. This material is usually colored black although pigments can be added to produce different colors .Some current applications include seals, bumpers, grommets, etc.

### **Technical Data**

Properties	Units	ASTM Test Method	Result
Shore A Hardness	A Scale	D-2240-04	65
Split Tear Strength	PLI	D-1938	160
Die C Tear Strength	PLI	D-624-00 Type C	344
Tensile Strength	PSI	D-412-98a	6200
Ultimate Elongation	%	D-412-98a	525
100 % Modulus	PSI	D-412-98a	300
200% Modulus	PSI	D-412-98a	450
300% Modulus	PSI	D-412-98a	700
Compression Set	%	D-395-03	40
Compression Defection	PSI	D-575	
2%	PSI	D-575	25
5%	PSI	D-575	65
10%	PSI	D-575	135
15%	PSI	D-575	190
20%	PSI	D-575	260
25%	PSI	D-575	355
50%	PSI	D-575	820
Taber Abrasion	MG Loss	D-4060-01	
Resilience	%	D-2632-01	
Bayshore Rebound	%	D-2636	
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 <sup>3</sup>		1.15

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