



## 73 Shore D TDI Polyether Urethane

### Application

This material is very hard like a typically molded plastic part. This material has the typical urethane properties such as high abrasion resistance, low compression set. This material is a good alternative for low volume plastic like parts, this is due to the reduced tooling cost typically  $\frac{1}{5}$  of the cost of an injection or blow molding tool. Typical color of this material is black. Some current applications include bumpers, plastic like parts (engine air intakes), hose adaptors, etc

### Technical Data

Properties	Units	ASTM Test Method	Result
Shore D Hardness	D Scale	D-2240-04	73
Split Tear Strength	PLI	D-1938	130
Die C Tear Strength	PLI	D-624-00 Type C	1100
Tensile Strength	PSI	D-412-98a	7500
Ultimate Elongation	%	D-412-98a	230
100 % Modulus	PSI	D-412-98a	4500
200% Modulus	PSI	D-412-98a	6000
300% Modulus	PSI	D-412-98a	7200
Compression Set	%	D-395-03	
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	51
Resilience	%	D-2632-01	66
Bayshore Rebound	%	D-2636	
FDA Dry Food Grade Approved			No
FDA Wet Food Grade Approved			No
Low Temperature Brittleness	°C (°F)	D-2137-05 Method B	-40 (-40)
Specific Gravity	G/cm <sup>3</sup>		1.17

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