

73 Shore D TDI Polyether Urethane (Molybdenum disulfide filled)

Application

This material is a TDI/ polyether urethane blended with molybdenum disulfide powder. This gives the urethane elastomer self lubricating properties. This material has low compression set and high abrasion resistance. Typical color of this material is black. Current applications are mainly high thrust washers, bearings, sleeves and self lubricating inner roller hubs.

Technical Data

Properties	Units	ASTM Test Method	Result
Shore D Hardness	D Scale	D-2240-04	73
Split Tear Strength	PLI	D-1938	
Die C Tear Strength	PLI	D-624-00 Type C	
Tensile Strength	PSI	D-412-98a	5200
Ultimate Elongation	%	D-412-98a	220
100 % Modulus	PSI	D-412-98a	
200% Modulus	PSI	D-412-98a	
300% Modulus	PSI	D-412-98a	
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	
Resilience	%	D-2632-01	
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 ³		1.17

The Information contained in this data sheet is believed to be accurate, but no warranty is given nor is anything to be construed as a recommendation to infringe upon an existing patent. Since conditions of use are beyond our control, all risks of use are assumed by the user. For further assistance in material specification or additional material properties please contact us.