

Lubrizol Pellethane® 2363-55D Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

Feature: USP Class VI Available in Americas, Europe, Middle East, Africa, India and Asia
Data provided by Lubrizol
Lubrizol acquired the Pellethane product line from Dow in 2009.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Pellethane-2363-55D-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 1.60 mm	0.0040 - 0.0080 in/in @Thickness 0.0630 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0060 cm/cm @Thickness 1.60 mm	0.0050 - 0.0060 in/in @Thickness 0.0630 in	
Melt Flow	8.0 - 18 g/10 min @Load 2.16 kg, Temperature 224 °C	8.0 - 18 g/10 min @Load 4.76 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51 - 59	51 - 59	ASTM D2240
Tensile Strength, Ultimate	47.5 MPa	6890 psi	ASTM D412
Elongation at Break	30 %	30 %	ASTM D412
	390 %	390 %	ASTM D412
50% Modulus	0.0131 GPa	1.90 ksi	ASTM D412
100% Modulus	0.0172 GPa	2.49 ksi	ASTM D412
300% Modulus	0.0295 GPa	4.28 ksi	ASTM D412
Flexural Modulus	0.172 GPa	24.9 ksi	ASTM D790
Tear Strength	114 kN/m	650 pli	Die "C"; ASTM D624
Taber Abrasion, mg/1000 Cycles	80	80	H22 Wheel, 1000g; ASTM D1044
Compression Set	25 % @Temperature 25.0 °C, Time 79200 sec	25 % @Temperature 77.0 °F, Time 22.0 hour	ASTM D395 Method B
	30 %	30 %	

Mechanical Properties	Metric	English	Comments
	@ Temperature 70.0 °C, Time 79200 sec	@ Temperature 158 °F, Time 22.0 hour	ASTM D257 Method B

Thermal Properties	Metric	English	Comments
CTE, linear	143 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	79.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	ASTM D696
Vicat Softening Point	109 °C	228 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 225 °C	410 - 437 °F	Molding
Mold Temperature	15.0 - 60.0 °C	59.0 - 140 °F	
Drying Temperature	90.0 - 105 °C	194 - 221 °F	

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