

Lubrizol Pellethane® 2363-75D 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-2363-75D-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	28 g/10 min @Load 5.00 kg, Temperature 224 °C	28 g/10 min @Load 11.0 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	ASTM D2240
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D412
Elongation at Break	380 %	380 %	ASTM D412
Flexural Modulus	1.30 GPa	189 ksi	ASTM D790
Tear Strength	257 kN/m	1470 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	55	55	H22 Wheel, 1000g; ASTM D1044
Tensile Set	50 %	50 %	Elongation Set After Break; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	88.7 µm/m-°C @Temperature -80.0 - - 30.0 °C	49.3 µin/in-°F @Temperature -112 - - 22.0 °F	ASTM D696
Vicat Softening Point	116 °C	241 °F	120°C/hr, 9.8N; ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 221 °C	399 - 430 °F	Extrusion

Processing Properties	210 - 227 °C Metric	410 - 441 °F English	Molding Comments
Mold Temperature	16.0 - 60.0 °C	60.8 - 140 °F	
Drying Temperature	99.0 - 110 °C	210 - 230 °F	air dew point <-40°C

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