

Lubrizol Pellethane® 2363-90A 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-2363-90A-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
Melt Flow	30 g/10 min @Load 1.20 kg, Temperature 224 °C	30 g/10 min @Load 2.65 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength, Ultimate	40.3 MPa	5850 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
50% Modulus	0.00830 GPa	1.20 ksi	ASTM D412
100% Modulus	0.0117 GPa	1.70 ksi	ASTM D412
300% Modulus	0.0207 GPa	3.00 ksi	ASTM D412
Flexural Modulus	0.0758 GPa	11.0 ksi	ASTM D790
Tear Strength	100 kN/m	571 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	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 % @Temperature 70.0 °C, Time 79200 sec	30 % @Temperature 158 °F, Time 22.0 hour	ASTM D395, Method B
Tensile Set	30 %	30 %	Elongation set after break; ASTM D412

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	157 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -80.0 - - 30.0 $^\circ\text{C}$	87.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -112 - - 22.0 $^\circ\text{F}$	ASTM D696
Vicat Softening Point	110 $^\circ\text{C}$	230 $^\circ\text{F}$	120 $^\circ\text{C}$.hr, 9.8N; ASTM D1525
Glass Transition Temp, Tg	-30.0 $^\circ\text{C}$	-22.0 $^\circ\text{F}$	

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 221 $^\circ\text{C}$	399 - 430 $^\circ\text{F}$	Molding
Mold Temperature	16.0 - 60.0 $^\circ\text{C}$	60.8 - 140 $^\circ\text{F}$	
Drying Temperature	88.0 - 104 $^\circ\text{C}$	190 - 219 $^\circ\text{F}$	air dew point <-40 $^\circ\text{C}$

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