

Lubrizol Pellethane® 2363-90AE 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-2363-90AE-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 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
Melt Flow	32 g/10 min @Load 1.20 kg, Temperature 224 °C	32 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	41.3 MPa	5990 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
50% Modulus	0.00660 GPa	0.957 ksi	ASTM D412
100% Modulus	0.0102 GPa	1.48 ksi	ASTM D412
300% Modulus	0.0190 GPa	2.76 ksi	ASTM D412
Flexural Modulus	0.0689 GPa	9.99 ksi	ASTM D790
Tear Strength	94.6 kN/m	540 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	50	50	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
	40 % @Temperature 70.0 °C, Time 79200 sec	40 % @Temperature 158 °F, Time 22.0 hour	ASTM D395, Method B
Tensile Set	60 %	60 %	Elongation set after break; ASTM D412

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	162 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	90.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature -80.0 - -30.0 $^\circ\text{C}$	@Temperature -112 - -22.0 $^\circ\text{F}$	
Vicat Softening Point	89.4 $^\circ\text{C}$	193 $^\circ\text{F}$	120 $^\circ\text{C}$.hr, 9.8N; ASTM D1525
Glass Transition Temp, Tg	-33.0 $^\circ\text{C}$	-27.4 $^\circ\text{F}$	

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 210 $^\circ\text{C}$	379 - 410 $^\circ\text{F}$	Molding
	193 - 210 $^\circ\text{C}$	379 - 410 $^\circ\text{F}$	Extrusion
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 $^\circ\text{F}$	

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