

Lubrizol Pellethane® 2363-65D 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-2363-65D-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.0090 cm/cm	0.0080 - 0.0090 in/in	ASTM D955
Melt Flow	40 g/10 min @Load 5.00 kg, Temperature 224 °C	40 g/10 min @Load 11.0 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Ultimate	44.5 MPa	6450 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
50% Modulus	0.0162 GPa	2.35 ksi	ASTM D412
100% Modulus	0.0200 GPa	2.90 ksi	ASTM D412
300% Modulus	0.0345 GPa	5.00 ksi	ASTM D412
Flexural Modulus	0.221 GPa	32.1 ksi	ASTM D790
Tear Strength	193 kN/m	1100 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	105	105	H22 Wheel; ASTM D1044
Compression Set	30 % @Temperature 25.0 °C, Time 79200 sec	30 % @Temperature 77.0 °F, Time 22.0 hour	ASTM D395
	35 % @Temperature 70.0 °C, Time 79200 sec	35 % @Temperature 158 °F, Time 22.0 hour	ASTM D395
Tensile Set	50 %	50 %	Elongation set after break; ASTM D412

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	104 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	57.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature -80.0 - -30.0 $^\circ\text{C}$	@Temperature -112 - -22.0 $^\circ\text{F}$	
Vicat Softening Point	107 $^\circ\text{C}$	225 $^\circ\text{F}$	120 $^\circ\text{C}/\text{hr}$, 9.8N; ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 221 $^\circ\text{C}$	399 - 430 $^\circ\text{F}$	Extrusion
	210 - 227 $^\circ\text{C}$	410 - 441 $^\circ\text{F}$	Molding
Mold Temperature	16.0 - 60.0 $^\circ\text{C}$	60.8 - 140 $^\circ\text{F}$	
Drying Temperature	99.0 - 110 $^\circ\text{C}$	210 - 230 $^\circ\text{F}$	air dew point $\leq -40^\circ\text{C}$

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