

## Lubrizol Pellethane® 2363-80AE Thermoplastic Polyurethane Elastomer

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

### Material Notes:

Features: 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-2363-80AE-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Pellethane-2363-80AE-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm @Thickness 1.59 mm	0.0050 - 0.0080 in/in @Thickness 0.0625 in	plaque
Linear Mold Shrinkage, Transverse	-0.00100 - 0.0040 cm/cm @Thickness 1.59 mm	-0.00100 - 0.0040 in/in @Thickness 0.0625 in	plaque
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 224 °C	10 g/10 min @Load 4.76 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81 - 89	81 - 89	ASTM D2240
Tensile Strength, Ultimate	28.9 MPa	4190 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
50% Modulus	0.00480 GPa	0.696 ksi	ASTM D412
100% Modulus	0.00610 GPa	0.885 ksi	ASTM D412
300% Modulus	0.0103 GPa	1.49 ksi	ASTM D412
Tear Strength	73.6 kN/m	420 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	30	30	H22 Wheel, 1000g; ASTM D1044
Compression Set	30 % @Temperature 25.0 °C, Time 79200 sec	30 % @Temperature 77.0 °F, Time 22.0 hour	ASTM D395 Method B
	80 % @Temperature 70.0 °C, Time 79200 sec	80 % @Temperature 158 °F, Time 22.0 hour	ASTM D395 Method B

Mechanical Properties	Metric	English	Comments
			Comments set after break, ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	165 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	91.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ASTM D696
Vicat Softening Point	81.7 $^{\circ}\text{C}$	179 $^{\circ}\text{F}$	ASTM D1525
Glass Transition Temp, Tg	-47.0 $^{\circ}\text{C}$	-52.6 $^{\circ}\text{F}$	

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 205 $^{\circ}\text{C}$	374 - 401 $^{\circ}\text{F}$	Molding
	190 - 205 $^{\circ}\text{C}$	374 - 401 $^{\circ}\text{F}$	Extrusion
Mold Temperature	15.0 - 60.0 $^{\circ}\text{C}$	59.0 - 140 $^{\circ}\text{F}$	
Drying Temperature	80.0 - 95.0 $^{\circ}\text{C}$	176 - 203 $^{\circ}\text{F}$	

## Contact Songhan Plastic Technology Co.,Ltd.

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