

Lubrizol Estane® 2355-80AE Thermoplastic Polyurethane Elastomer

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

Material Notes:

Formerly Pellethane
 Feature: Damping capacity
 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-Estane-2355-80AE-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 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	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 8.70 kg, Temperature 224 °C	7.0 g/10 min @Load 19.2 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
Tensile Strength, Ultimate	39.2 MPa	5690 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
50% Modulus	0.00386 GPa	0.560 ksi	ASTM D412
100% Modulus	0.00620 GPa	0.899 ksi	ASTM D412
300% Modulus	0.0152 GPa	2.20 ksi	ASTM D412
Tear Strength	126 kN/m	719 pli	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
	75 % @Temperature 70.0 °C, Time 79200 sec	75 % @Temperature 158 °F, Time 22.0 hour	ASTM D395, Method B
Tensile Set	60 %	60 %	Elongation set after break; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	166 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	92.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Vicat Softening Point	93.0 $^\circ\text{C}$	199 $^\circ\text{F}$	120 $^\circ\text{C}/\text{hr}$, 9.8N; ASTM D1525
Glass Transition Temp, Tg	-37.0 $^\circ\text{C}$	-34.6 $^\circ\text{F}$	DSC

Processing Properties	Metric	English	Comments
Melt Temperature	188 - 204 $^\circ\text{C}$	370 - 399 $^\circ\text{F}$	Extrusion
	193 - 204 $^\circ\text{C}$	379 - 399 $^\circ\text{F}$	Molding
Mold Temperature	16.0 - 60.0 $^\circ\text{C}$	60.8 - 140 $^\circ\text{F}$	
Drying Temperature	82.0 - 93.0 $^\circ\text{C}$	180 - 199 $^\circ\text{F}$	air dew point $\leq -40^\circ\text{C}$

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