

Lubrizol Estane® 2355-75A Thermoplastic Polyurethane Elastomer

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

Material Notes:

Formerly Pellethane
 Feature: Memory and elasticity, Impact modification
 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-2355-75A-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	-0.00100 - 0.0060 cm/cm	-0.00100 - 0.0060 in/in	ASTM D955
Melt Flow	28 g/10 min @Load 8.70 kg, Temperature 224 °C	28 g/10 min @Load 19.2 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	ASTM D2240
Tensile Strength, Ultimate	35.5 MPa	5150 psi	ASTM D412
Elongation at Break	525 %	525 %	ASTM D412
50% Modulus	0.00300 GPa	0.435 ksi	ASTM D412
100% Modulus	0.00490 GPa	0.711 ksi	ASTM D412
300% Modulus	0.0105 GPa	1.52 ksi	ASTM D412
Tear Strength	78.8 kN/m	450 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	28	28	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
	30 % @Temperature 70.0 °C, Time 79200 sec	30 % @Temperature 158 °F, Time 22.0 hour	ASTM D395
Tensile Set	30 %	30 %	Elongation set after break; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	171 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	95.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D969
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Vicat Softening Point	77.2 $^{\circ}\text{C}$	171 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{hr}$, 9.8N; ASTM D1525
Glass Transition Temp, Tg	-42.0 $^{\circ}\text{C}$	-43.6 $^{\circ}\text{F}$	DSC

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 199 $^{\circ}\text{C}$	351 - 390 $^{\circ}\text{F}$	Extrusion
	188 - 204 $^{\circ}\text{C}$	370 - 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 <-40 $^{\circ}\text{C}$

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