

Lubrizol Estane® 2355-95AEF Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Type: Pellethane® 2355-95AEF is a thermoplastic polyurethane elastomer.Feature: Film resin, Fuel resistant, Blow molding grade resin.Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-2355-95AEF-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	Transverse direction; ASTM D955
	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	Flow direction; ASTM D955
Melt Flow	13 g/10 min	13 g/10 min	ASTM D1238
	@Load 8.70 kg, Temperature 190 °C	@Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	ASTM D2240
Tensile Strength, Ultimate	38.9 MPa	5640 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
50% Modulus	0.00830 GPa	1.20 ksi	ASTM D412
100% Modulus	0.00970 GPa	1.41 ksi	ASTM D412
300% Modulus	0.0214 GPa	3.10 ksi	ASTM D412
Flexural Modulus	0.0896 GPa	13.0 ksi	ASTM D790
Tear Strength	105 kN/m	599 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	4.0	4.0	H-22 (coarser); ASTM D1044
Compression Set	30 %	30 %	Method B; ASTM D395
	@Temperature 25.0 °C, Time 79200 sec	@Temperature 77.0 °F, Time 22.0 hour	
	80 %	80 %	Method B; ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	153 $\mu\text{m/m-}^{\circ}\text{C}$	85.0 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
Vicat Softening Point	80.6 $^{\circ}\text{C}$ @Load 0.999 kg	177 $^{\circ}\text{F}$ @Load 2.20 lb	120 $^{\circ}\text{C/hr}$, 9.8N; ASTM D1525
Glass Transition Temp, Tg	-15.0 $^{\circ}\text{C}$	5.00 $^{\circ}\text{F}$	DSC

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 199 $^{\circ}\text{C}$	360 - 390 $^{\circ}\text{F}$	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 $^{\circ}\text{F}$	Air dew point <-40 $^{\circ}\text{C}$

Descriptive Properties	Value	Comments
Elongation Set After Break (%)	60	ASTM D412

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