

Lubrizol Estane® 2355-85ABR Thermoplastic Polyurethane Elastomer

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

Material Notes:

Formerly Pellethane
Feature: FDA and USDA compliance, Blend resin
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-2355-85ABR-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	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0010 - 0.0050 cm/cm	0.0010 - 0.0050 in/in	ASTM D955
Melt Index of Compound	52 g/10 min @Load 8.70 kg, Temperature 190 °C	52 g/10 min @Load 19.2 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D412
Elongation at Break	630 %	630 %	ASTM D412
50% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
100% Modulus	0.00590 GPa	0.856 ksi	ASTM D412
300% Modulus	0.00900 GPa	1.31 ksi	ASTM D412
Tear Strength	78.8 kN/m	450 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	15	15	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
	75 % @Temperature 70.0 °C, Time 79200 sec	75 % @Temperature 158 °F, Time 22.0 hour	ASTM D395, Method B
Tensile Set	80 %	80 %	Elongation set after break; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	161 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	89.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Vicat Softening Point	76.1 $^{\circ}\text{C}$	169 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{hr}$, 9.8N; ASTM D1525
Glass Transition Temp, Tg	-36.0 $^{\circ}\text{C}$	-32.8 $^{\circ}\text{F}$	DSC

Processing Properties	Metric	English	Comments
Melt Temperature	166 - 182 $^{\circ}\text{C}$	331 - 360 $^{\circ}\text{F}$	Extrusion
	171 - 182 $^{\circ}\text{C}$	340 - 360 $^{\circ}\text{F}$	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 $<-40^{\circ}\text{C}$

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China