

Lubrizol Estane® 58246 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Features: High stiffness grade with excellent chemical and oil resistance. Uses: Flat Die/Cast Film Extrusion and Injection Molding. Available in Americas, Europe, Middle East, Africa, India and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-58246-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47 - 53	47 - 53	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength, Ultimate	64.1 MPa	9300 psi	ASTM D412
Elongation at Break	420 %	420 %	ASTM D412
100% Modulus	0.0124 GPa	1.80 ksi	ASTM D412
300% Modulus	0.0307 GPa	4.45 ksi	ASTM D412
Tear Strength	31.6 kN/m	180 pli	Trouser; ASTM D470
Graves Tear Strength	140 kN/m	800 pli	Die C; ASTM D624
Tensile Set	12 %	12 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	Kofler
	170 °C	338 °F	DSC
Glass Transition Temp, Tg	-20.0 °C	-4.00 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	199 °C	390 °F	Extrusion
Zone 2	204 °C	399 °F	Extrusion
Zone 3	210 °C	410 °F	Extrusion

Processing Properties	Metric	English	Comments
Adapter Temperature	221 °C	430 °F	5, Extrusion
Die Temperature	221 °C	430 °F	6, Zone 1, Extrusion
	221 °C	430 °F	Zone 2, Extrusion
Drying Temperature	104 °C	219 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

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