

Lubrizol ESTANE® 58206 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Good Flexibility at Low Temperatures and Improved Weathering Performance. Uses: Flat Die/Cast Film Extrusion and Hose/Profile Extrusion, Injection Molding. Available in Americas, Europe, Middle East, Africa, India and Asia. Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58206-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	Injection

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88 @Time 5.00 sec	82 - 88 @Time 0.00139 hour	ASTM D2240
Tensile Strength	48.3 MPa	7010 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
100% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
300% Modulus	0.0104 GPa	1.51 ksi	ASTM D412
Tear Strength	22.8 kN/m	130 pli	Trouser; ASTM D470
Graves Tear Strength	87.7 kN/m	500 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	3.0	3.0	H18, 1000g; ASTM D3389 B
Tensile Set	10 %	10 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	DSC
Glass Transition Temp, Tg	-32.0 °C	-25.6 °F	DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 °C	351 °F	Injection
Middle Barrel Temperature	188 °C	370 °F	Injection

Processing Properties	Metric	English	Comments
Nozzle Temperature	199 °C	390 °F	Injection
Zone 1	177 °C	351 °F	Extrusion
Zone 2	183 °C	361 °F	Extrusion
Zone 3	188 °C	370 °F	Extrusion
Zone 4	194 °C	381 °F	Extrusion
Adapter Temperature	194 °C	381 °F	5, Extrusion
Die Temperature	194 °C	381 °F	Zone 1, 6, Extrusion
	194 °C	381 °F	Zone 2, Extrusion
Melt Temperature	155 °C	311 °F	Kofler
	199 °C	390 °F	Injection
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	
Injection Pressure	20.7 - 48.3 MPa	3000 - 7000 psi	Injection
Back Pressure	0.345 MPa	50.0 psi	Injection
Screw Speed	20 - 50 rpm	20 - 50 rpm	Injection

Descriptive Properties	Value	Comments
Volume swell in Jet Fuel JP8	7.7%	ASTM D471

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