

Lubrizol ESTANE® 58238 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Highly Elastic Compound and Good Recovery for a Rubber-Like CharacterUses: Flat Die/Film Extrusion and Blown Film and Injection Molding and Profile ExtrusionAvailable in Americas, Europe, Middle East, Africa and IndiaInformation provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58238-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72 - 78 @Time 5.00 sec	72 - 78 @Time 0.00139 hour	ASTM D2240
Tensile Strength	48.3 MPa	7010 psi	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
100% Modulus	0.00450 GPa	0.653 ksi	ASTM D412
300% Modulus	0.0124 GPa	1.80 ksi	ASTM D412
Tear Strength	17.5 kN/m	100 pli	Trouser; ASTM D470
Graves Tear Strength	68.4 kN/m	390 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	21	21	H18, 1000g; ASTM D3389
Tensile Set	4.0 %	4.0 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	128 °C	262 °F	
Glass Transition Temp, Tg	-45.0 °C	-49.0 °F	

Processing Properties	Metric	English	Comments
Zone 1	177 °C	351 °F	Extrusion
Zone 2	182 °C	360 °F	Extrusion
Zone 3	188 °C	370 °F	Extrusion

Processing Properties	Metric	English	Comments
Adapter Temperature	194 °C	381 °F	Extrusion
Die Temperature	194 °C	381 °F	Zone 1, Extrusion
	194 °C	381 °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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