

Lubrizol ESTANE® 58271 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Good physical properties, chemical resistance and adhesive properties and wide processing window for extrusion. Uses: Blown and flat die/cast film extrusion, Injection and blow 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-58271-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88 @Time 5.00 sec	82 - 88 @Time 0.00139 hour	ASTM D2240
Tensile Strength	51.7 MPa	7500 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
100% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
300% Modulus	0.00970 GPa	1.41 ksi	ASTM D412
Tear Strength	22.8 kN/m	130 pli	Trouser; ASTM D470
Graves Tear Strength	78.9 kN/m	450 pli	DieC; ASTM D624
Taber Abrasion, mg/1000 Cycles	2.5	2.5	H18, 1000g; ASTM D3389 B
Tensile Set	13 %	13 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	115 °C	239 °F	Kofler
	120 °C	248 °F	DSC
Glass Transition Temp, Tg	-28.0 °C	-18.4 °F	DSC

Optical Properties	Metric	English	Comments
Haze	1.1 %	1.1 %	65 mil between glass; ASTM D-1003

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
Zone 4	193 °C	379 °F	Extrusion
Adapter Temperature	193 °C	379 °F	5, Extrusion
Die Temperature	193 °C	379 °F	Zone 1, 6, Extrusion
	193 °C	379 °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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