

Lubrizol ESTANE® 58213 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Excellent blend partner for PVC and general adhesive and good physical properties. Uses: Flat die/cast film extrusion and hose jacketing, Calendaring/melt coating. 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-58213-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 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	37.9 MPa	5500 psi	ASTM D412
Elongation at Break	680 %	680 %	ASTM D412
100% Modulus	0.00280 GPa	0.406 ksi	ASTM D412
300% Modulus	0.00410 GPa	0.595 ksi	ASTM D412
Tear Strength	17.5 kN/m	100 pli	ASTM D470
Graves Tear Strength	52.6 kN/m	300 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	6.4	6.4	H18, 1000g; ASTM D3389 B
Tensile Set	6.0 %	6.0 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	100 °C	212 °F	Kofler
	110 °C	230 °F	DSC
Glass Transition Temp, Tg	-30.0 °C	-22.0 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	166 °C	331 °F	Extrusion
Zone 2	171 °C	340 °F	Extrusion

Processing Properties	^{176 °C} Metric	^{349 °F} English	Comments
Zone 4	182 °C	360 °F	Extrusion
Adapter Temperature	182 °C	360 °F	Extrusion
Die Temperature	182 °C	360 °F	Zone 1, Extrusion
	182 °C	360 °F	Zone 2, Extrusion
Drying Temperature	54.0 °C	129 °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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