

Lubrizol Estane® ALR G500 Water Absorbent Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Type: Estane® ALR G500 is an aliphatic thermoplastic polyurethane (TPU) resin designed to absorb water and transport moisture.Features:

Contains UV additives Available in Americas Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-ALR-G500-Water-Absorbent-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1230
	@Load 2.16 kg, Temperature 150 °C	@Load 4.76 lb, Temperature 302 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	Wet; ASTM D2240
Hardness, Shore D	60	60	Dry; ASTM D2240
Tensile Strength, Ultimate	1.72 MPa	250 psi	Wet; ASTM D412
	6.89 MPa	1000 psi	Dry; ASTM D412
Elongation at Break	100 %	100 %	Dry; ASTM D412
	200 %	200 %	Wet; ASTM D412

Processing Properties	Metric	English	Comments
Zone 1	155 °C	311 °F	
Zone 2	160 °C	320 °F	
Zone 3	165 °C	329 °F	
Zone 4	170 °C	338 °F	
Die Temperature	170 °C	338 °F	
Melt Temperature	170 °C	338 °F	
Drying Temperature	43.3 °C	110 °F	forced air desiccant dryer
Dry Time	4.00 hour	4.00 hour	

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