

Lubrizol ESTANE® 54600 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Very good physical properties and chemical resistance and wide processing window for calendering. Uses: Melt coating/calendering, flat die/cast film extrusion 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-54600-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89 - 95	89 - 95	ASTM D2240
	@Time 18000 sec	@Time 5.00 hour	
Tensile Strength	58.6 MPa	8500 psi	ASTM D412
Tensile Stress	6.90 MPa	1000 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
	24.8 MPa	3600 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	490 %	490 %	ASTM D412
Tear Strength	29.8 kN/m	170 pli	Trouser; ASTM D470
Graves Tear Strength	112 kN/m	640 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	45	45	H18, 1000g; ASTM D3389 B
Compression Set	27 %	27 %	ASTM D395
Tensile Set	30 %	30 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	DSC
	140 °C	284 °F	Kofler
Glass Transition Temp, Tg	-20.0 °C	-4.00 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	171 °C	340 °F	Extrusion
Zone 2	177 °C	351 °F	Extrusion
Zone 3	182 °C	360 °F	Extrusion
Zone 4	188 °C	370 °F	Extrusion
Adapter Temperature	193 °C	379 °F	5, Extrusion
Die Temperature	193 °C	379 °F	Die Zone 1, Extrusion
	193 °C	379 °F	Die 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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