

Lubrizol ESTANE® 54610 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: 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-54610-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88	82 - 88	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	37.2 MPa	5400 psi	ASTM D412
Tensile Strength, Ultimate	37.2 MPa	5400 psi	ASTM D412/D638
Elongation at Break	620 %	620 %	ASTM D412/D638
100% Modulus	0.00530 GPa	0.769 ksi	ASTM D412
300% Modulus	0.00830 GPa	1.20 ksi	ASTM D412
Tear Strength	26.3 kN/m	150 pli	Trouser; ASTM D470
Graves Tear Strength	70.1 kN/m	400 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	2.5	2.5	H18, 1000g; ASTM D3389 B
Tensile Set	11 %	11 %	200% elongation

Thermal Properties	Metric	English	Comments
Melting Point	120 °C	248 °F	DSC
Glass Transition Temp, Tg	120 °C	248 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	171 °C	340 °F	Extrusion
Zone 2	177 °C	351 °F	Extrusion

Processing Properties	Metric	English	Comments
Zone 4	188 °C	370 °F	Extrusion
Adapter Temperature	188 °C	370 °F	5, Extrusion
Die Temperature	188 °C	370 °F	Zone 1, 6, Extrusion
	188 °C	370 °F	Zone 2, Extrusion
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

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