

Lubrizol Estane® X-590A-2FR Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Type: Estane® X-590A-2FR TPU is a Shore 89A, polyester type thermoplastic polyurethane elastomer. Uses: Film Blowing, Extrusion. Available in Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-X-590A-2FR-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	ASTM D2240
Tensile Strength, Ultimate	34.3 MPa	4980 psi	ASTM D412
Tensile Strength, Yield	7.85 MPa	1140 psi	at 100% elongation; ASTM D412
	14.7 MPa	2130 psi	at 300% elongation; ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
Tear Strength	103 kN/m	588 pli	Die C; ASTM D624
Compression Set	25 % @ Temperature 23.0 °C, Time 79200 sec	25 % @ Temperature 73.4 °F, Time 22.0 hour	ASTM D395
	55 % @ Temperature 70.0 °C, Time 79200 sec	55 % @ Temperature 158 °F, Time 22.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	180 °C	356 °F	
Zone 2	185 °C	365 °F	
Zone 3	190 °C	374 °F	
Zone 4	190 °C	374 °F	

Die Temperature Processing Properties	185 °C Metric	365 °F English	Comments
Descriptive Properties		Value	Comments
Adaptor (°C)		195	

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