

Lubrizol ESTAGRIP® ST80A Polyether-Type Thermoplastic Polyurethane

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

Material Notes:

Features: Low durometer soft feel for excellent grip; outstanding adhesionUses: Injection Molding - OvermoldingAvailability: Americas, Europe, Middle East, Africa, India and AsiaInformation provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTAGRIP-ST80A-Polyether-Type-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77 - 83 @Time 5.00 sec	77 - 83 @Time 0.00139 hour	ASTM D2240
Tensile Strength	22.8 MPa	3310 psi	ASTM D412
Tensile Stress	3.70 MPa @Strain 100 %	537 psi @Strain 100 %	ASTM D412
	6.70 MPa @Strain 300 %	972 psi @Strain 300 %	ASTM D412
Elongation at Break	750 %	750 %	ASTM D412
Graves Tear Strength	68.4 kN/m	390 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	45	45	H-18, 1000 g; ASTM D3389 B

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-51.0 °C	-59.8 °F	by DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	218 °C	424 °F	
Middle Barrel Temperature	221 °C	430 °F	
Front Barrel Temperature	227 °C	441 °F	
Nozzle Temperature	227 °C	441 °F	
Melt Temperature	227 °C	441 °F	pyrometer check of air shot

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