

Lubrizol Estane® ZHF 80AT3 Thermoplastic Polyurethane, Flame Retardant

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

Material Notes:

Type: Estane® ZHF 80AT3 NAT 022 is an 80A non halogen, flame retardant, aromatic polyether-based thermoplastic polyurethane (TPU). Appearance: Transparent spherical pellets Features: Zero halogen Uses: Wire and Cable Available in Americas, Europe, Middle East, Africa, India and Asia Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-ZHF-80AT3-Thermoplastic-Polyurethane-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Maximum Moisture Content	0.050	0.050	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength, Ultimate	46.0 MPa	6670 psi	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
Taber Abrasion, mg/1000 Cycles	340 @Load 1.00 kg	340 @Load 2.20 lb	H-18 wheel; ASTM D3389
Compression Set	20 %	20 %	ASTM D395
Tensile Set	20 %	20 %	ASTM D412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525
Glass Transition Temp, Tg	-37.8 °C	-36.0 °F	DSC
Flammability, UL94	V-2 @Thickness 1.91 mm	V-2 @Thickness 0.0750 in	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	25 %	25 %	

Processing Properties	Metric	English	Comments
Zone 1	185 °C	365 °F	Extrusion

Zone 2 Processing Properties	185 °C Metric	365 °F English	Extrusion Comments
Zone 3	190 °C	374 °F	Extrusion
Zone 4	185 °C	365 °F	Extrusion
Adapter Temperature	185 °C	365 °F	5, Extrusion
Die Temperature	180 °C	356 °F	6, Extrusion
	180 °C	356 °F	7, tip, Extrusion
Drying Temperature	100 °C	212 °F	
Dry Time	3.00 hour	3.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

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