

Lubrizol Estane® ZHF 90AT0 Thermoplastic Polyurethane, Flame Retardant

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

Material Notes:

Type: Estane® ZHF 90AT0 TPU is a clear, glossy, zero halogen flame retardant polyether based thermoplastic polyurethane compound. Features: Outstanding TPU properties. Uses: Cable jacket and tube/hose and injection molding and fabric coating. 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-90AT0-Thermoplastic-Polyurethane-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength, Ultimate	46.5 MPa	6750 psi	ASTM D412
Elongation at Break	400 %	400 %	ASTM D412
100% Modulus	0.0100 GPa	1.45 ksi	ASTM D412
300% Modulus	0.0290 GPa	4.21 ksi	ASTM D412
Tear Strength	25.2 kN/m	144 pli	Trouser; ASTM D470
Graves Tear Strength	102 kN/m	583 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	54	54	H-18 wheel; ASTM D3389
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
Melting Point	172 °C	342 °F	DSC
Glass Transition Temp, Tg	-38.0 °C	-36.4 °F	DSC
Flammability, UL94	V-2	V-2	Vertical Flame Test; ASTM D3801
	@Thickness 0.762 mm	@Thickness 0.0300 in	

Processing Properties	Metric	English	Comments
Zone 1	180 °C	356 °F	Extrusion

Processing Properties	Metric	English	Comments
Zone 2	185 °C	365 °F	Extrusion
	185 °C	365 °F	Extrusion
Zone 3	190 °C	374 °F	Extrusion
	190 °C	374 °F	Extrusion
Zone 4	195 °C	383 °F	Extrusion
	195 °C	383 °F	Extrusion
Adapter Temperature	195 °C	383 °F	5, Extrusion
Die Temperature	205 °C	401 °F	6, Zone 1, Extrusion
	205 °C	401 °F	Zone 2, Extrusion
Drying Temperature	180 °C	356 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

Descriptive Properties	Value	Comments
RT Burst Pressure	4.3 MPa	ISO 7628/1

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China