

Estane® ZHF 90AT0 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

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 & Tube/Hose and Injection Molding & Fabric Coating

General Information			
Additive	Flame retardancy		
Features	Highlight		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Pipe		
	Pipe fittings		
	Fabric coating		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Extrusion		
	Coating		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	91		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	54.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	10.0	MPa	ASTM D412
300% strain	29.0	MPa	ASTM D412
Tensile Strength (Break)	47.0	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength			

-- 1	100	kN/m	ASTM D624
Cracking	25	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-38.0	°C	DSC
Melting Temperature	172	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating (0.760 mm)	V-2		UL 94
Additional Information	Nominal Value	Unit	Test Method
Burst Strength (23°C)	4.30	MPa	ISO 7628/1
Extrusion	Nominal Value	Unit	
Drying Temperature	82.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	185	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	195	°C	
Adapter Temperature	195	°C	
Die Temperature	205	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20			
NOTE			
1.	C mould		

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