

Estane® ZHF 80AT3 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

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

General Information			
UL YellowCard	E106426-317620		
Features	Aroma		
	Halogen-free		
	Flame retardancy		
Uses	Wire and cable applications		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000g, H-18 wheel)	340	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set	20	%	ASTM D412
Tensile Strength (Break, 1.00 mm)	46.0	MPa	ASTM D412
Tensile Elongation (Break, 1.00 mm)	600	%	ASTM D412
Compression Set	20	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-37.8	°C	DSC
Vicat Softening Temperature	90.0	°C	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.91 mm)	V-2		UL 94
Oxygen Index	25	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0	hr	

Suggested Max Moisture	< 0.050	%
Cylinder Zone 1 Temp.	185	°C
Cylinder Zone 2 Temp.	185	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 4 Temp.	185	°C
Adapter Temperature	185	°C
Die Temperature	180	°C

Extrusion instructions

Dew Point: <-30°C

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