

Estane® ZHF 90AT2 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® ZHF90AT2 NAT 022 is a halogen free, flame retardant, aromatic polyether-based thermoplastic polyurethane.

Appearance: White opaque spherical pellets

Application: Cable & Wire

Features: Zero halogen

General Information			
UL YellowCard	E106426-218380		
Additive	Flame retardancy		
Features	Aroma		
	Halogen-free		
	Flame retardancy		
Uses	Wire and cable applications		
RoHS Compliance	RoHS compliance		
Appearance	White		
	Opacity		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	90		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	38.0	mm ³	ISO 4649-A
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3/5/200
Fracture	28.0	MPa	ISO 527-3/5/200
50% strain	8.00	MPa	ISO 527-3/5/200
100% strain	9.00	MPa	ISO 527-3/5/200
300% strain	13.7	MPa	ISO 527-3/5/200
Tensile Elongation (Break)	520	%	ISO 527-3/5/200
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	85	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ISO 306/A50
Flammability	Nominal Value	Unit	Test Method

Flame Rating (3.00 mm)	V-2	UL 94
Oxygen Index	24	% ASTM D2863
Extrusion	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	3.0	hr
Suggested Max Moisture	< 0.050	%
Cylinder Zone 1 Temp.	200	°C
Cylinder Zone 2 Temp.	205	°C
Cylinder Zone 3 Temp.	210	°C
Cylinder Zone 4 Temp.	205	°C
Adapter Temperature	205	°C
Die Temperature	205	°C
Extrusion instructions		
L/D Ratio: 25:1Compression Ratio: 3:1Dew Point: -30°C to -40°CDie Tip: 200°C		
NOTE		

- Method B, right-angle specimen
(cut)

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

