

Estane® ZHF90AT2 NAT 055

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® ZHF90AT2 NAT 055 is a non halogen, flame retardant, aromatic polyether-based thermoplastic polyurethane.

Application: Extrusion

General Information			
Additive	Flame retardancy		
Features	Aroma		
	Halogen-free		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	91		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	49.0	mm ³	ISO 4649-A
Films	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 527-3/200
Fracture	24.0	MPa	ISO 527-3/200
50% strain	9.00	MPa	ISO 527-3/200
100% strain	10.0	MPa	ISO 527-3/200
300% strain	15.0	MPa	ISO 527-3/200
Tensile Elongation ² (Break)	460	%	ISO 527-3/200
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	72	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 (3.0 mm)	V-2		UL 94
Oxygen Index	24	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0	hr	
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

Dew Point: -30°C to -40°C Die Tip: 200°C

NOTE

1.	Type 5A
2.	Type 5A
3.	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

