



Estane® ZHF 85AT8 NAT01

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polyether)

Wednesday, November 6, 2019

General Information

Product Description

Type: ESTANE® ZHF85AT8 NAT01 is a non halogen, flame retardant aromatic polyether-based thermoplastic polyurethane.

Application: Extrusion

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Aromatic	• Flame Retardant	• Halogen Free
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 2781
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5A/200
--	6530	psi	
50% Strain	580	psi	
100% Strain	725	psi	
300% Strain	1310	psi	
Tensile Strain (Break)	530	%	ISO 527-2/5A/200
Abrasion Resistance	36.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	280	lbf/in	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 1 sec)	82		ISO 868
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	169	°F	ISO 306
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Oxygen Index	25	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0 to 4.0	hr
Cylinder Zone 1 Temp.	392	°F
Cylinder Zone 2 Temp.	401	°F
Cylinder Zone 3 Temp.	401	°F
Cylinder Zone 4 Temp.	392	°F
Adapter Temperature	392	°F

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Extrusion	Nominal Value	Unit
Die Temperature	383	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method Bb, Angle (Nicked)