

Appearance

Processing Method

Forms

Estane® ZHF 58211 NAT 02

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

· Natural Color

Pellets

Extrusion

Wednesday, November 6, 2019

General Information Product Description Type: ESTANE® ZHF 58211 NAT 02 is a non halogen, flame retardant, aromatic polyether-based thermoplastic polyurethane (TPU). Application: Extrusion General Material Status · Commercial: Active · Africa & Middle East Europe Availability · North America · Asia Pacific · Latin America Features Aromatic · Flame Retardant · Halogen Free

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.25	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Stress ²			Internal Method	
	4060	psi		
50% Strain	1450	psi		
100% Strain	1600	psi		
300% Strain	2180	psi		
Tensile Strain ² (Break)	470	%	Internal Method	
Abrasion Resistance	88.0	mm³	ISO 4649-A	
Elastomers	Nominal Value	Unit	Test Method	
Tear Strength ³	571	lbf/in	ISO 34-1	
Hardness	Nominal Value	Unit	Test Method	
Shore Hardness (Shore A, 1 sec)	91		ISO 868	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	208	°F	ISO 306/A50	
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	212 °F		
Drying Time	4.0 hr		
Suggested Max Moisture	0.020 %		
Cylinder Zone 1 Temp.	401 °F		
Cylinder Zone 2 Temp.	401 °F		
Cylinder Zone 3 Temp.	392 °F		
Cylinder Zone 4 Temp.	392 °F		



Estane® ZHF 58211 NAT 02

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

Extrusion	Nominal Value	Unit
Adapter Temperature	392	°F
Die Temperature	383	°F
Notes		

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



² VDE282 part 10

³ Method Ba, Angle (Unnicked)