

Technical Data Sheet

Type: ESTANE® ZHF 92AT8 NAT 01 is a non-halogen, flame retardant, aromatic polyether-based thermoplastic polyurethane.

Application: Extrusion

Physical Properties	Value (Metric)	Unit	Test Method
Hardness	A/1: 94	Shore A	ISO 868
Specific Gravity	1.22	g/cm ³	ISO 1183
Tensile Strength	15	MPa	VDE282 part 10
Ultimate Elongation	502	%	VDE282 part 10
Tensile Stress at:			
- 100 % Elongation	8	MPa	VDE282 part 10
- 300 % Elongation	10	MPa	VDE282 part 10
Tear Strength nicked	72	kN/m	ISO 34-1B

- Based on extruded strips
- Prior to testing samples were conditioned at 23°C for 24 hours
- Listed values are "typical (average) values" and should/can not be applied for specification purposes.

Application Specific Properties	Value (Metric)	Unit	Test Method
UL Flame Rating	V0-2 mm	-	UL-94
LOI	34	%	ASTM D-2863
Smoke Density (0.75 mm)	-	Flaming DM Non flaming DM	ASTM E662

Supply Form and Standard Packaging

- ESTANE® ZHF 92AT8 NAT 01 is supplied in pellet form and packaged in 25 kg (x lb) bags or 700-800 kg boxes (x lbs).

Material Preparation

- Prior to processing, ESTANE® ZHF 92AT8 NAT 01 must be dried at 100°C for 3-4 hours.
- It is recommended to dry the material in a vacuum or dehumidifying type dryer. Target dew point should be -40°C.
- Depending on the applied processing technique, the maximum moisture level should be 0.02%.

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Recommended Starting EXTRUSION Temperature Profile:

	°C
Zone 1	190
Zone 2	185
Zone 3	185
Zone 4	180
Adapter (5)	180
Die Zone 1 (6)	175
Die Zone 2	175

For further information refer to Lubrizol Advanced Materials processing guides.

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