

Technical Data Sheet

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

Application: Extrusion

Physical Properties	Value (Metric)	Unit	Test Method
Hardness	A/1 : 82	Shore A/D	ISO 868
Specific Gravity	1.13	g/cm ³	ISO 2781
Tensile Strength	45	MPa	ISO 527-2/5A/200
Ultimate Elongation	530	%	ISO 527-2/5A/200
Tensile Stress at:			
- 50 % Elongation	4	MPa	ISO 527-2/5A/200
- 100 % Elongation	5	MPa	ISO 527-2/5A/200
- 300 % Elongation	9	MPa	ISO 527-2/5A/200
Tear Strength nicked	49	kN/m	ISO 34-1B
Abrasion Resistance	36	mm ³	ISO 4649-A
Vicat Softening	76	°C	ISO 306

See reverse side for processing information

* Based on extruded strips

Listed values are “typical (average) values” and should /cannot be applied for specification purposes

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Application Specific Properties	Value (Metric)	Unit	Test Method
UL Flame Rating	V2	-	UL-94
LOI	25	%	ASTM D-2863
Smoke Density (0.75mm)	TBD	Flaming DM Non Flaming DM	ASTM E662

Material Preparation

Prior to processing, **ESTANE® ZHF85AT8 NAT01** be dried at **80°C** for 3-4 hours.
It is recommended to dry the material in a dehumidifying type dryer.
Target dew point should be **-40°C**.

Recommended Starting EXTRUSION Temperature Profile:

	°C
Hopper cooling	Yes
Zone 1	200
Zone 2	205
Zone 3	205
Zone 4	200
Adapter (5)	200
Die (6)	195
Die TIP (7)	195

For further information refer to Lubrizol Advanced Materials processing guides.

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