

Technical Data Sheet

Type: ESTANE® ZHF 58370 NAT 01 EXP is a non-halogen, flame retardant, aromatic polyether-based thermoplastic polyurethane.

Main application: Extrusion

Physical Properties	Value (Metric)	Unit	Test Method
Hardness	A/1 : 86	Shore A/D	ISO 868
Specific Gravity	1.20	g/cm ³	ISO 2781
Tensile Strength	31	MPa	ISO 527-2/5A/200
Ultimate Elongation	650	%	ISO 527-2/5A/200
Tensile Stress at:			
- 50 % Elongation	5	MPa	ISO 527-2/5A/200
- 100 % Elongation	6	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	91	mm ³	ISO 4649-A

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 - 2,0 mm	-	UL-94
LOI	23	%	ASTM D-2863
Smoke Density (0.75mm)		Flaming DM Non Flaming DM	ASTM E662

Material Preparation

Prior to processing, **ESTANE® ZHF 58370 NAT 01** must be dried at **100°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	180
Zone 2	185
Zone 3	190
Zone 4	185
Adapter (5)	185
Die (6)	180
Die TIP (7)	180

For further information refer to Lubrizol Advanced Materials processing guides.

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