

Technical Data Sheet
Type: ESTANE[®] 58889 NAT 055 is an aromatic polyether-based thermoplastic polyurethane

Main Application: Extrusion

Physical Properties *	Value (Metric)	Unit	Test Method
Hardness	A/1: 89	Shore A/D	ISO 868
Specific Gravity	1.15	g/cm ³	ISO 2781
Tensile Strength	49	MPa	ISO 527-2/5A/500
Ultimate Elongation	590	%	ISO 527-2/5A/500
Tensile Stress at:			
- 50 % Elongation	6	MPa	ISO 527-2/5A/500
- 100 % Elongation	7	MPa	ISO 527-2/5A/500
- 300 % Elongation	12	MPa	ISO 527-2/5A/500
Tear Strength nicked	62	kN/m	ISO 34-1B
Abrasion Resistance	41	mm ³	ISO 4649-A
Vicat Softening Point	90	°C	Iso 306 (A50)

See reverse side for processing information

- *Based on extruded strips*

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

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Material Preparation

- Prior to processing, **ESTANE[®] 58889 NAT 055** must 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	180-195
Zone 2	185-200
Zone 3	190-205
Zone 4	190-205
Adapter (5)	190-205
Die (6)	180-195
Die TIP (7)	175-190

For further information refer to Lubrizol Advanced Materials processing guides.

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