

**Technical Data Sheet**
**Type:** Estane® 58889 NAT 055 is an aromatic polyether-based thermoplastic polyurethane

**Main Application:** Extrusion

**Uses:**

Physical Properties *	Value (Metric)	Unit	Test Method
Hardness	A/1: 89	Shore A/D	ISO 868
Specific Gravity	1.15	g/cm <sup>3</sup>	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 <sup>3</sup>	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
<b>Hopper cooling</b>	<b>Yes</b>
<b>Zone 1</b>	<b>180</b>
<b>Zone 2</b>	<b>185</b>
<b>Zone 3</b>	<b>190</b>
<b>Zone 4</b>	<b>190</b>
<b>Adapter (5)</b>	<b>190</b>
<b>Die (6)</b>	<b>180</b>
<b>Die TIP (7)</b>	<b>175</b>

For further information refer to Lubrizol Advanced Materials processing guides.

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