

Technical Data Sheet
Type: ESTALOC™ 59380 NAT055 is an aromatic polyether-based thermoplastic polyurethane

Main Application: Injection Moulding

Physical Properties *	Value (Metric)	Unit	Test Method
Glass Fiber	30	%	-
Hardness	D/1:74	Shore A/D	ISO 868
Specific Gravity	1.41	g/cm ³	ISO 2781
Tensile Strength	77	MPa	ISO 527-2/1A/5
Ultimate Elongation	15	%	ISO 527-2/1A/5
Abrasion Resistance	25	MG/1000 Rev.	ASTM D-1044 CS-17 wheel
Vicat Softening Point	161	°C	ISO 306 (A50)
Coefficient of Thermal Expansion	2.16	°C ⁻¹ (x10 ⁻⁵)	ASTM D-696
Mould Shrinkage	0.15	%	ASTM D-955

See reverse side for processing information

* Based on moulded plaques

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

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Material Preparation

Prior to processing, **ESTALOC™ 59380 NAT055** must be dried at **100°C** for 2-3 hours. It is recommended to dry the material in a dehumidifying type dryer. Target dew point should be **-30°C**.

The moisture content must be less than 0.05 %

Recommended Injection Moulding Temperature Profile:

	°C
Feed zone	40
Zone 1	210-220
Zone 2	215-225
Zone 3	220-230
Zone 4	220-230
Nozzle	215-225

For further information refer to Lubrizol Advanced Materials processing guides.

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