

## Nilit Polynil® C50 PA66/6 Co-Polymer

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

**Material Notes:**

Description: NYLON 66/6 copolymer Application: Compounding Information provided by NILIT.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nilit-Polynil-C50-PA666-Co-Polymer.php](http://www.lookpolymers.com/polymer_Nilit-Polynil-C50-PA666-Co-Polymer.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.9 %	1.9 %	24h in H <sub>2</sub> O; sim. ISO 62
Water Absorption at Saturation	9.0 %	9.0 %	sim. ISO 62
Viscosity Measurement	50	50	relative viscosity (formic acid); ASTM D789
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	Nilit

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	ASTM D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	2.85 GPa	413 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	225 °C	437 °F	49 N; ASTM D1525
	245 °C	473 °F	9.8 N; ASTM D1525

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746

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