

## Nilit Polynil® C50L Externally Lubricated PA66/6

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

### Material Notes:

Description: Polynil C50L shows better surface finish, flow and elongation than a comparable homopolymer. Key characteristics: Excellent flow High elongation Good impact strength Good overall mechanical performance Good thermal performance Information provided by NILIT.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nilit-Polynil-C50L-Externally-Lubricated-PA666.php](http://www.lookpolymers.com/polymer_Nilit-Polynil-C50L-Externally-Lubricated-PA666.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
Loss On Ignition	28 %	28 %	ASTM D2863
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
Elongation at Break	30 %	30 %	ASTM D638
Tensile Modulus	2.95 GPa	428 ksi	ASTM D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.650 J/cm <sup>2</sup>	3.09 ft-lb/in <sup>2</sup>	ISO 179

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	235 °C	455 °F	49 N; ASTM D1525
	245 °C	473 °F	9.8 N; ASTM D1525

Thermal Properties	V-2 Metric	V-2 English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	457 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746

Descriptive Properties	Value	Comments
Heat Resistance - Ball Test	OK	at 125°C, IEC 309
	OK	at 165°C, IEC 309

## Contact Songhan Plastic Technology Co.,Ltd.

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