Nilit Polynil® P50FIL Super Fast Cycling, Nucleated Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Nucleated

Material Notes:

Description: Polynil P50 FIL is a nucleated, internally lubricated NYLON 66 with excellent flow characteristics and very fast cycle time. It is widely used throughout many industries for mass production articles that require fast cycle times, like lighter bodies, aerosol sprays and terminal blocks.Key characteristics: Excellent flowFast cycle timeHigh elongationGood mould releaseHigh toughnessGood thermal performance Information provided by NILIT.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Nilit-Polynil-P50FIL-Super-Fast-Cycling-Nucleated-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in³	ASTM D792
Water Absorption	1.5 %	1.5 %	24h in H₂O; sim. ISO 62
Water Absorption at Saturation	8.5 %	8.5 %	sim. ISO 62
Loss On Ignition	28 %	28 %	ASTM D2863
Viscosity Measurement	50	50	relative viscosity (formic acid); ASTM D789
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	Nilit

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.9 MPa	12600 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	2.92 GPa	424 ksi	ASTM D790
Izod Impact, Notched (ISO)	3.99 kJ/m²	1.90 ft-lb/in²	ASTM D256
Charpy Impact Unnotched	NB	NB	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	72.2 °C	162 °F	ASTM D648
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	
	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	**Metric**	**English**	**Comments**
Dielectric Strength	18.0 kV/mm @Thickness 2.00 mm	457 kV/in @Thickness 0.0787 in	ASTM D149
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

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