

Solvay TECHNYL® A 218 S30 Black 21 N PA66, 30% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Description: Polyamide PA66, reinforced with 30% of glass spheres, heat stabilized, for injection molding. Available in: EuropeProduct

Applications: TECHNYL® A 218 S30 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. This grade is recommended for mechanical components which require a very good surface finish with low warpage, and good compression strength. (bearing housings). This product is available in black. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-S30-Black-21-N-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183/A
Water Absorption	0.75 %	0.75 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527 Type 1A
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527 type 1 A
Elongation at Break	9.0 %	9.0 %	ISO 527 Type 1A
Elongation at Yield	4.0 %	4.0 %	ISO 527 type 1 A
Tensile Modulus	4.50 GPa	653 ksi	ISO 527 Type 1A
Flexural Modulus	3.85 GPa	558 ksi	ISO 178
Izod Impact, Notched (ISO)	2.50 kJ/m ²	1.19 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ISO 11357
Oxygen Index	25 %	25 %	ISO 4589

Electrical Properties	Metric	English	Comments
Dielectric Strength			IEC 60243

Electrical Properties	30.0 kV/mm Metric	762 kV/in English	Comments
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	450 V	450 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 °C	500 - 518 °F	
Front Barrel Temperature	280 - 290 °C	536 - 554 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280°C	

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