

Solvay TECHNYLÂ® B 218 V30 Black 21 N PA66, 30% glass fiber, DRY

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

Material Notes:

Description: Copolyamide PA66/6, reinforced with 30% of glass fiber, heat stabilized, for injection molding. Available in: Asia Pacific and Europe
 Product Applications: TECHNYLÂ® B 218 V30 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. This grade is commonly used in the automotive industry; especially for the production of unpainted external parts due to its excellent surface finish, such as: door mirror housing, door handles. This product is available in grey and 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-B-218-V30-Black-21-N-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/inÂ³	ISO 1183/A
Water Absorption	0.95 %	0.95 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	ISO 527 Type 1A
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	9.80 GPa	1420 ksi	ISO 527 Type 1A
Flexural Modulus	8.30 GPa	1200 ksi	ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/mÂ²	5.23 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	8.00 J/cmÂ²	38.1 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	242 Â°C	468 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	230 Â°C	446 Â°F	ISO 75/Af

Oxygen Index	23 %	23 %	ISO 4589
Thermal Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	6.00e+13 ohm	6.00e+13 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	300 V	300 V	Solution B; IEC 60112
	450 V	450 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	250 - 270 Â°C	482 - 518 Â°F	
Front Barrel Temperature	270 - 280 Â°C	518 - 536 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	260-270Â°C	
Fire and smoke F index	1	NF F 16 101

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