

Solvay TECHNYL® A 218 V20 Black 21N PA66, 20% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Description: Polyamide PA66, reinforced with 20% of glass fiber, heat stabilized, for injection molding. Available in: Europe Product

Applications: TECHNYL A 218 V20 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 for engine components, such as: air ducts and various liquid containers.

This product is available in natural, black and grey. 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-V20-Black-21N-PA66-20-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183/A
Water Absorption	1.0 % @Temperature 23.0 °C, Time 86400 sec	1.0 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	ISO 527 Type 1A
Elongation at Break	4.0 %	4.0 %	ISO 527 Type 1A
Tensile Modulus	7.40 GPa	1070 ksi	ISO 527 Type 1A
Flexural Modulus	6.40 GPa	928 ksi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	4.80 J/cm ²	22.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ISO 11357
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	650 °C @Thickness 1.60 mm	1200 °F @Thickness 0.0630 in	ISO 60695-2-12
	650 °C @Thickness 1.60 mm	1200 °F @Thickness 0.0630 in	Ignition Temperature; ISO 60695-2-13

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	32.0 kV/mm	813 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	450 V	450 V	Solution A; IEC 60112

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

Descriptive Properties	Value	Comments
Compression Zone	270-280Â°C	

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