

Solvay TECHNYL® A 218 V40 PA66, 40% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

Description: Polyamide PA66, reinforced with 40% of glass fiber, heat stabilized for injection molding. Available in: Asia Pacific, Europe and North America
 Product Applications: TECHNYL A 218 V40 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. This grade is used in: automotive industry, manufacture of components for electrical tools, and transport and building. This product is available in natural 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-A-218-V40-PA66-40-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183/A
Water Absorption	0.70 % @Temperature 23.0 °C, Time 86400 sec	0.70 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0057 cm/cm	0.0057 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	225 MPa	32600 psi	ISO 527 Type 1A
Elongation at Break	2.0 %	2.0 %	ISO 527 Type 1A
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527 Type 1A
Flexural Modulus	10.8 GPa	1570 ksi	ISO 178
Izod Impact, Notched (ISO)	13.5 kJ/m ²	6.42 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	9.70 J/cm ²	46.2 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature 23.0 - 85.0 °C	11.1 µin/in-°F @Temperature 73.4 - 185 °F	ISO 11359
Melting Point	263 °C	505 °F	ISO 11357

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric	English	Comments
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Oxygen Index	23 %	23 %	ISO 4589

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	35.0 kV/mm	889 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 - 280 Å°C	500 - 536 Å°F	
Front Barrel Temperature	280 - 310 Å°C	536 - 590 Å°F	
Mold Temperature	60.0 - 90.0 Å°C	140 - 194 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-300Å°C	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China