

Solvay Technyl® A 218 V35 Nylon 66, 35% Glass Fiber, EH0

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

Material Notes:

Polyamides PA66, reinforced with 35% of glass fiber, heat stabilized, for injection molding. Technyl A 218 V35 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 of engine components, such as inlet manifolds, air ducts, engine cover, and various housing and 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-V35-Nylon-66-35-Glass-Fiber-EH0.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183-A
Water Absorption	0.75 %	0.75 %	24 hours in water at 23°C; ISO 62.
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	RHODIA-EP
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	RHODIA-EP

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	210 MPa	30500 psi	ISO 527
Tensile Strength, Yield	210 MPa	30500 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	11.4 GPa	1650 ksi	ISO 527
Flexural Yield Strength	286 MPa	41500 psi	ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Izod Impact Resistance	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1EA-1993
Charpy Impact, Notched	1.35 J/cm ²	6.42 ft-lb/in ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 Åµm/m-Å°C	12.2 Åµin/in-Å°F	ASTM E831
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
Melting Point	263 Å°C	505 Å°F	ISO 3146-C
Deflection Temperature at 1.8 MPa	255 Å°C	491 Å°F	

<small>(264 psi)</small> Thermal Properties	Metric	English	ISO 75-2 Comments
Flammability, UL94	HB	HB	ISO 1210/UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	23 %	23 %	ISO 4589

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	6.00e+14 ohm	6.00e+14 ohm	IEC 93
Dielectric Constant	3.7	3.7	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 243-1
Dissipation Factor	0.010	0.010	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	450 V	450 V	IEC 112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	
Middle Barrel Temperature	270 - 280 Â°C	518 - 536 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	

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