

Solvay TECHNYL[®] A 218W V15 PA66, 15% glass fiber, DRY

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

Material Notes:

Description: Polyamide 66, reinforced with 15% of glass fiber, for injection molding, heat stabilized, with improved hydrolysis resistance. Available in: North America Product Applications: TECHNYL[®] A 218W V15 is used in all sectors of industry, offering an excellent combination of thermal and mechanical properties. This grade is recommended for the production of mechanical components in permanent or intermittent contact with hot water: e.g. electro-magnetic valves. This product is available in natural. 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-218W-V15-PA66-15-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183/A
Water Absorption	1.1 % @Temperature 23.0 °C, Time 86400 sec	1.1 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0073 cm/cm	0.0073 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527 Type 1A
Elongation at Break	4.0 %	4.0 %	ISO 527 Type 1A
Tensile Modulus	6.07 GPa	880 ksi	ISO 527 Type 1A
Flexural Modulus	5.27 GPa	764 ksi	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	ISO 180/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210

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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