

Solvay TECHNYLÂ® A 218 V50 PA66, 50% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 50% Glass Fiber Filled

Material Notes:

Description: TECHNYLÂ® A 218 V50 is a polyamide 66, reinforced with 50% of glass fiber, heat stabilized, for injection molding. This product is available in natural and black colors. Benefits: The product offers an excellent combination between thermal and mechanical properties. Available in: Asia Pacific, Europe and North America Regulations compliance: Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC. This grade complies with RoHS directive 2002/95/EC. Unless specified, this grade is not suitable for food contact, medical devices or toy applications. Applications: It is used in a wide variety of industries. 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-V50-PA66-50-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/inÂ³	ISO 1183/A
Water Absorption	0.60 % @Temperature 23.0 Â°C, Time 86400 sec	0.60 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Viscosity	20 cP @Shear Rate 1000 1/s, Temperature 280 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 536 Â°F	shear rate: 1000/s
	20 cP @Shear Rate 1000 1/s, Temperature 290 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 554 Â°F	shear rate: 1000/s
	20 cP @Shear Rate 1000 1/s, Temperature 300 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 572 Â°F	shear rate: 1000/s
	170 cP @Shear Rate 100 1/s, Temperature 300 Â°C	170 cP @Shear Rate 100 1/s, Temperature 572 Â°F	shear rate: 100/s
	180 cP @Shear Rate 100 1/s, Temperature 290 Â°C	180 cP @Shear Rate 100 1/s, Temperature 554 Â°F	shear rate: 100/s
	190 cP @Shear Rate 100 1/s, Temperature 280 Â°C	190 cP @Shear Rate 100 1/s, Temperature 536 Â°F	shear rate: 100/s
	320 cP	320 cP	shear rate: 10/s

Physical Properties	Metric @Shear Rate 10.0 1/s, Temperature 300 Â°C	English @Shear Rate 10.0 1/s, Temperature 572 Â°F	Comments
	400 cP	400 cP	
	@Shear Rate 10.0 1/s, Temperature 290 Â°C	@Shear Rate 10.0 1/s, Temperature 554 Â°F	shear rate: 10/s
	450 cP	450 cP	
	@Shear Rate 10.0 1/s, Temperature 280 Â°C	@Shear Rate 10.0 1/s, Temperature 536 Â°F	shear rate: 10/s
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0044 cm/cm	0.0044 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	220 MPa	31900 psi	ASTM D638
	240 MPa	34800 psi	ISO 527 Type 1A
Tensile Stress	155 MPa	22500 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	240 MPa	34800 psi	
	@Strain 2.00 %	@Strain 2.00 %	
Elongation at Break	2.0 %	2.0 %	ISO 527 Type 1A
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	16.2 GPa	2350 ksi	ISO 527 Type 1A
Flexural Strength	350 MPa	50800 psi	ASTM D790
Flexural Modulus	13.5 GPa	1960 ksi	ISO 178
	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	14.5 kJ/mÂ²	6.90 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	9.50 J/cmÂ²	45.2 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
	15.0 Âµm/m-Â°C	8.33 Âµin/in-Â°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @ Temperature 23.0 - 85.0 Å°C	English @ Temperature 73.4 - 185 Å°F	ISO 11359 Comments
Melting Point	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 Å°C	491 Å°F	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	1210
	HB	HB	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	1210
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	650 Å°C	1200 Å°F	ISO 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	650 Å°C	1200 Å°F	
	@Thickness 1.60 mm	@Thickness 0.0630 in	ISO 60695-2-12
	700 Å°C	1290 Å°F	ISO 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	6.00e+14 ohm	6.00e+14 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	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	265 - 275 Å°C	509 - 527 Å°F	
Mold Temperature	80.0 - 110 Å°C	176 - 230 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	

Moisture Content Processing Properties	$\leq 0.20\%$ Metric	$\leq 0.20\%$ English	Comments
Descriptive Properties		Value	Comments
Compression Zone		270-280°C	
Mixing Zone		280-290°C	

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