

Solvay TECHNYLÂ® A 218 V25 Black 21 N PA66, 25% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Description: TECHNYLÂ® A 218 V25 is a polyamide 66, reinforced with 25% 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-V25-Black-21-N-PA66-25-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/inÂ³	ISO 1183/A
Water Absorption	0.90 % @Temperature 23.0 Â°C, Time 86400 sec	0.90 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Viscosity	30 cP @Shear Rate 1000 1/s, Temperature 280 Â°C	30 cP @Shear Rate 1000 1/s, Temperature 536 Â°F	
	30 cP @Shear Rate 1000 1/s, Temperature 290 Â°C	30 cP @Shear Rate 1000 1/s, Temperature 554 Â°F	
	30 cP @Shear Rate 1000 1/s, Temperature 300 Â°C	30 cP @Shear Rate 1000 1/s, Temperature 572 Â°F	
	120 cP @Shear Rate 100 1/s, Temperature 280 Â°C	120 cP @Shear Rate 100 1/s, Temperature 536 Â°F	
	120 cP @Shear Rate 100 1/s, Temperature 290 Â°C	120 cP @Shear Rate 100 1/s, Temperature 554 Â°F	
	120 cP @Shear Rate 100 1/s, Temperature 300 Â°C	120 cP @Shear Rate 100 1/s, Temperature 572 Â°F	
	200 cP	200 cP	

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
	220 cP	220 cP	
	@Shear Rate 10.0 1/s, Temperature 290 Â°C	@Shear Rate 10.0 1/s, Temperature 554 Â°F	
	290 cP	290 cP	
	@Shear Rate 10.0 1/s, Temperature 280 Â°C	@Shear Rate 10.0 1/s, Temperature 536 Â°F	
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	ISO 527 Type 1A
Tensile Stress	50.0 MPa	7250 psi	
	@Strain 2.50 %, Temperature 120 Â°C	@Strain 2.50 %, Temperature 248 Â°F	
	59.0 MPa	8560 psi	
	@Strain 2.50 %, Temperature 100 Â°C	@Strain 2.50 %, Temperature 212 Â°F	
	70.0 MPa	10200 psi	
	@Strain 5.00 %, Temperature 120 Â°C	@Strain 5.00 %, Temperature 248 Â°F	
	79.0 MPa	11500 psi	
	@Strain 5.00 %, Temperature 100 Â°C	@Strain 5.00 %, Temperature 212 Â°F	
	79.0 MPa	11500 psi	
	@Strain 10.0 %, Temperature 120 Â°C	@Strain 10.0 %, Temperature 248 Â°F	
	81.0 MPa	11700 psi	
	@Strain 10.0 %, Temperature 100 Â°C	@Strain 10.0 %, Temperature 212 Â°F	
	85.0 MPa	12300 psi	
	@Strain 2.50 %, Temperature 60.0 Â°C	@Strain 2.50 %, Temperature 140 Â°F	
	105 MPa	15200 psi	
	@Strain 5.00 %,	@Strain 5.00 %,	

Mechanical Properties	Temperature 60.0 Å°C Metric	Temperature 140 Å°F English	Comments
	140 MPa	20300 psi	
	@Strain 2.50 %, Temperature 23.0 Å°C	@Strain 2.50 %, Temperature 73.4 Å°F	
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
	4.0 %	4.0 %	ASTM D638
Tensile Modulus	8.40 GPa	1220 ksi	ISO 527 Type 1A
Flexural Strength	250 MPa	36300 psi	ASTM D790
Flexural Modulus	7.30 GPa	1060 ksi	ISO 178
	7.30 GPa	1060 ksi	ASTM D790
Izod Impact, Notched (ISO)	8.50 kJ/mÅ²	4.04 ft-lb/inÅ²	ISO 180/1A
Charpy Impact Unnotched	5.70 J/cmÅ²	27.1 ft-lb/inÅ²	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cmÅ²	4.76 ft-lb/inÅ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Åµm/m-Å°C	15.0 Åµin/in-Å°F	ISO 11359
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
CTE, linear, Transverse to Flow	2.70 Åµm/m-Å°C	1.50 Åµin/in-Å°F	ISO 11359
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
Melting Point	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	245 Å°C	473 Å°F	ASTM D648
	255 Å°C	491 Å°F	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	HB	HB	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	1210

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	650 Å°C @Thickness 1.60 mm	1200 Å°F @Thickness 0.0630 in	ISO 60695-2-12

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	32.0 kV/mm	813 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	70.0 - 100 Å°C	158 - 212 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280Å°C	
Mixing Zone	280-290Å°C	

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