

Solvay TECHNYLÂ® A 218 V35 PA66, 35% glass fiber, DRY

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

Material Notes:

Description: TECHNYLÂ® A 218 V35 is a polyamide 66, reinforced with 35% 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, Latin America 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-V35-PA66-35-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/inÂ³	ISO 1183/A
Water Absorption	0.75 % @Temperature 23.0 Â°C, Time 86400 sec	0.75 % @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	
	20 cP @Shear Rate 1000 1/s, Temperature 290 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 554 Â°F	
	20 cP @Shear Rate 1000 1/s, Temperature 300 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 572 Â°F	
	120 cP @Shear Rate 10.0 1/s, Temperature 300 Â°C	120 cP @Shear Rate 10.0 1/s, Temperature 572 Â°F	
	135 cP @Shear Rate 100 1/s, Temperature 300 Â°C	135 cP @Shear Rate 100 1/s, Temperature 572 Â°F	
	140 cP @Shear Rate 100 1/s, Temperature 290 Â°C	140 cP @Shear Rate 100 1/s, Temperature 554 Â°F	
	150 cP	150 cP	

Physical Properties	Metric @Shear Rate 100 1/s, Temperature 280 Â°C	English @Shear Rate 100 1/s, Temperature 536 Â°F	Comments
	250 cP	250 cP	
	@Shear Rate 10.0 1/s, Temperature 290 Â°C	@Shear Rate 10.0 1/s, Temperature 554 Â°F	
	300 cP	300 cP	
	@Shear Rate 10.0 1/s, Temperature 280 Â°C	@Shear Rate 10.0 1/s, Temperature 536 Â°F	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	ISO 527 Type 1A
Tensile Stress	40.0 MPa	5800 psi	
	@Strain 1.00 %, Temperature 150 Â°C	@Strain 1.00 %, Temperature 302 Â°F	
	45.0 MPa	6530 psi	
	@Strain 1.00 %, Temperature 120 Â°C	@Strain 1.00 %, Temperature 248 Â°F	
	60.0 MPa	8700 psi	
	@Strain 1.00 %, Temperature 80.0 Â°C	@Strain 1.00 %, Temperature 176 Â°F	
	65.0 MPa	9430 psi	
	@Strain 2.00 %, Temperature 150 Â°C	@Strain 2.00 %, Temperature 302 Â°F	
	75.0 MPa	10900 psi	
	@Strain 1.00 %, Temperature 60.0 Â°C	@Strain 1.00 %, Temperature 140 Â°F	
	75.0 MPa	10900 psi	
	@Strain 2.00 %, Temperature 120 Â°C	@Strain 2.00 %, Temperature 248 Â°F	
	80.0 MPa	11600 psi	
	@Strain 3.00 %, Temperature 150 Â°C	@Strain 3.00 %, Temperature 302 Â°F	
	90.0 MPa	13100 psi	
	@Strain 3.00 %,	@Strain 3.00 %,	

Mechanical Properties	Temperature 120 Â°C Metric	Temperature 248 Â°F English	Comments
	90.0 MPa	13100 psi	
	@Strain 4.00 %, Temperature 150 Â°C	@Strain 4.00 %, Temperature 302 Â°F	
	90.0 MPa	13100 psi	
	@Strain 5.00 %, Temperature 150 Â°C	@Strain 5.00 %, Temperature 302 Â°F	
	95.0 MPa	13800 psi	
	@Strain 2.00 %, Temperature 80.0 Â°C	@Strain 2.00 %, Temperature 176 Â°F	
	95.0 MPa	13800 psi	
	@Strain 7.00 %, Temperature 150 Â°C	@Strain 7.00 %, Temperature 302 Â°F	
	100 MPa	14500 psi	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	100 MPa	14500 psi	
	@Strain 4.00 %, Temperature 120 Â°C	@Strain 4.00 %, Temperature 248 Â°F	
	105 MPa	15200 psi	
	@Strain 1.00 %, Temperature -40.0 Â°C	@Strain 1.00 %, Temperature -40.0 Â°F	
	105 MPa	15200 psi	
	@Strain 1.00 %, Temperature 0.000 Â°C	@Strain 1.00 %, Temperature 32.0 Â°F	
	105 MPa	15200 psi	
	@Strain 5.00 %, Temperature 120 Â°C	@Strain 5.00 %, Temperature 248 Â°F	
	105 MPa	15200 psi	
	@Strain 7.00 %, Temperature 120 Â°C	@Strain 7.00 %, Temperature 248 Â°F	
	110 MPa	16000 psi	
	@Strain 3.00 %, Temperature 80.0 Â°C	@Strain 3.00 %, Temperature 176 Â°F	
	122 MPa	17700 psi	
	@Strain 2.00 %, Temperature 60.0 Â°C	@Strain 2.00 %, Temperature 140 Â°F	
	125 MPa	18100 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 4.00 %, Temperature 80.0 Â°C	@Strain 4.00 %, Temperature 176 Â°F	
	125 MPa	18100 psi	
	@Strain 5.00 %, Temperature 80.0 Â°C	@Strain 5.00 %, Temperature 176 Â°F	
	140 MPa	20300 psi	
	@Strain 3.00 %, Temperature 60.0 Â°C	@Strain 3.00 %, Temperature 140 Â°F	
	150 MPa	21800 psi	
	@Strain 4.00 %, Temperature 60.0 Â°C	@Strain 4.00 %, Temperature 140 Â°F	
	150 MPa	21800 psi	
	@Strain 5.00 %, Temperature 60.0 Â°C	@Strain 5.00 %, Temperature 140 Â°F	
	155 MPa	22500 psi	
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	
	190 MPa	27600 psi	
	@Strain 3.00 %, Temperature 23.0 Â°C	@Strain 3.00 %, Temperature 73.4 Â°F	
	200 MPa	29000 psi	
	@Strain 2.00 %, Temperature 0.000 Â°C	@Strain 2.00 %, Temperature 32.0 Â°F	
	210 MPa	30500 psi	
	@Strain 2.00 %, Temperature -40.0 Â°C	@Strain 2.00 %, Temperature -40.0 Â°F	
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	11.4 GPa	1650 ksi	ISO 527 Type 1A
Flexural Strength	290 MPa	42100 psi	ASTM D790
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
	9.80 GPa	1420 ksi	ASTM D790
Izod Impact, Notched (ISO)	13.0 kJ/mÂ²	6.19 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	9.50 J/cmÂ²	45.2 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.35 J/cmÂ²	6.42 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359
	@Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	
Melting Point	263 $\text{Å}^\circ\text{C}$	505 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	ISO 75/Af
Flammability, UL94	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
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	23 %	23 %	ISO 4589

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	34.0 kV/mm	864 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 $\text{Å}^\circ\text{C}$	509 - 527 $\text{Å}^\circ\text{F}$	
Mold Temperature	70.0 - 100 $\text{Å}^\circ\text{C}$	158 - 212 $\text{Å}^\circ\text{F}$	
Drying Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	

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