

Solvay TECHNYLÂ® C 218 V 30 PA6, 30% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Description: TECHNYLÂ® C 218 V30 is a polyamide 6, heat stabilized, reinforced with 30% of glass fiber, for injection molding. This product is available in black color. 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-C-218-V-30-PA6-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/inÂ³	ISO 1183/A
Water Absorption	1.05 % @Temperature 23.0 Â°C, Time 86400 sec	1.05 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Viscosity	30 cP @Shear Rate 10000 1/s, Temperature 240 Â°C	30 cP @Shear Rate 10000 1/s, Temperature 464 Â°F	
	30 cP @Shear Rate 10000 1/s, Temperature 250 Â°C	30 cP @Shear Rate 10000 1/s, Temperature 482 Â°F	
	30 cP @Shear Rate 10000 1/s, Temperature 260 Â°C	30 cP @Shear Rate 10000 1/s, Temperature 500 Â°F	
	150 cP @Shear Rate 1000 1/s, Temperature 260 Â°C	150 cP @Shear Rate 1000 1/s, Temperature 500 Â°F	
	190 cP @Shear Rate 1000 1/s, Temperature 250 Â°C	190 cP @Shear Rate 1000 1/s, Temperature 482 Â°F	
	200 cP @Shear Rate 1000 1/s, Temperature 240 Â°C	200 cP @Shear Rate 1000 1/s, Temperature 464 Â°F	

Physical Properties	300 cP Metric	300 cP English	Comments
	@Shear Rate 100 1/s, Temperature 260 Â°C	@Shear Rate 100 1/s, Temperature 500 Â°F	
	400 cP	400 cP	
	@Shear Rate 100 1/s, Temperature 250 Â°C	@Shear Rate 100 1/s, Temperature 482 Â°F	
	500 cP	500 cP	
	@Shear Rate 100 1/s, Temperature 240 Â°C	@Shear Rate 100 1/s, Temperature 464 Â°F	
Linear Mold Shrinkage	0.0043 cm/cm	0.0043 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	ASTM D638
	190 MPa	27600 psi	ISO 527 Type 1A
Tensile Stress	60.0 MPa	8700 psi	
	@Strain 0.500 %	@Strain 0.500 %	
	100 MPa	14500 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	160 MPa	23200 psi	
	@Strain 2.00 %	@Strain 2.00 %	
	180 MPa	26100 psi	
	@Strain 3.00 %	@Strain 3.00 %	
Elongation at Break	3.2 %	3.2 %	ISO 527 Type 1A
	3.5 %	3.5 %	ASTM D638
Tensile Modulus	9.60 GPa	1390 ksi	ISO 527 Type 1A
Flexural Strength	255 MPa	37000 psi	ISO 178
Flexural Modulus	8.40 GPa	1220 ksi	ISO 178
Izod Impact, Notched (ISO)	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	ISO 180/1eA
	125 kJ/mÂ²	59.5 ft-lb/inÂ²	ASTM D256
Charpy Impact Unnotched	9.20 J/cmÂ²	43.8 ft-lb/inÂ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	ISO 11359
Melting Point	222 $\text{Å}^\circ\text{C}$	432 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	205 $\text{Å}^\circ\text{C}$	401 $\text{Å}^\circ\text{F}$	ISO 75/Åf
Flammability, UL94	HB @Thickness 0.400 - 3.20 mm	HB @Thickness 0.0157 - 0.126 in	1210
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	650 $\text{Å}^\circ\text{C}$ @Thickness 1.60 - 3.20 mm	1200 $\text{Å}^\circ\text{F}$ @Thickness 0.0630 - 0.126 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	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	475 V	475 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	230 - 235 $\text{Å}^\circ\text{C}$	446 - 455 $\text{Å}^\circ\text{F}$	
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 $\text{Å}^\circ\text{F}$	
Moisture Content	≤ 0.20 %	≤ 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	235-245 $\text{Å}^\circ\text{C}$	

Mixing Zone Descriptive Properties	245-250A °C Value	Comments
---------------------------------------	----------------------	----------

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China