

Solvay TECHNYLSTAR®, S 218 V30 PA6, 30% glass filled, DRY

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

Material Notes:

Description: TECHNYLSTAR®, S 218 V30 is based on a patented high flow polyamide 6 resin (TechnylStar), heat stabilized, reinforced with 30% of glass fiber, for injection molding. This product is available in black color. Benefits: Due to its outstanding flow characteristics, the product provides a significant productivity improvement and allows more freedom in mould and part design versus a standard polyamide solutions. 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-TECHNYLSTAR-S-218-V30-PA6-30-glass-filled-DRY.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183/A
Water Absorption	0.95 %	0.95 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage	0.0054 cm/cm	0.0054 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	
Linear Mold Shrinkage, Transverse	0.0065 cm/cm	0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ISO 527 Type 1A
Tensile Stress	85.0 MPa	12300 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	145 MPa	21000 psi	
	@Strain 2.00 %	@Strain 2.00 %	
	170 MPa	24700 psi	
	@Strain 3.00 %	@Strain 3.00 %	
Elongation at Break	3.8 %	3.8 %	ISO 527 Type 1A
Tensile Modulus	9.60 GPa	1390 ksi	ISO 527 Type 1A
Flexural Strength	255 MPa	37000 psi	ASTM D790

Elemental Modulus Mechanical Properties	8.40 GPa Metric	1220 ksi English	ISO 178 Comments
	8.65 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	ISO 180/1eU
Charpy Impact Unnotched	8.10 J/cmÂ²	38.5 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75/Af
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	1210
Glow Wire Test	650 Â°C @Thickness 1.60 mm	1200 Â°F @Thickness 0.0630 in	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	230 - 235 Â°C	446 - 455 Â°F	
Mold Temperature	80.0 Â°C	176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	235-240Â°C	
Mixing Zone	240-245Â°C	

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