

## Solvay TECHNYLSTAR<sup>®</sup>,ç S 218 V35 PA6, 35% glass filled, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

### Material Notes:

Description: TECHNYL STAR Polyamide, reinforced with 35% of glass fiber, heat stabilized, for injection molding. Characterized by a high fluidity of the melt. Available in: Europe and North America Product Applications: Due to its outstanding flow characteristics, TECHNYL STAR S 218 V35 BLACK 31N provides a significant productivity improvement and allows more freedom in mould design and part design versus standard polyamide solutions. This product is available in black. 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-V35-PA6-35-glass-filled-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYLSTAR-S-218-V35-PA6-35-glass-filled-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ISO 1183/A
Water Absorption	0.90 %	0.90 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage	0.0042 cm/cm	0.0042 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0053 cm/cm	0.0053 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	ISO 527 Type 1A
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	10.7 GPa	1550 ksi	ISO 527 Type 1A
Flexural Strength	295 MPa	42800 psi	ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	ISO 180/1eA
Izod Impact, Unnotched (ISO)	75.0 kJ/m <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	ISO 180/1eU
Charpy Impact Unnotched	7.50 J/cm <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	222 Â°C Metric	432 Â°F English	ISO 11357 Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ISO 75/af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Glow Wire Test	650 Â°C @Thickness 1.60 mm	1200 Â°F @Thickness 0.0630 in	ISO 60695-2-12

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 225 Â°C	428 - 437 Â°F	
Front Barrel Temperature	235 - 245 Â°C	455 - 473 Â°F	
Mold Temperature	80.0 Â°C	176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Compression Zone	225-235Â°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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