

## Solvay Technyl Star<sup>®</sup>,ç S 218 V30 30% Glass Reinforced Nylon 6

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

### Material Notes:

Heat stabilized, low viscosity, injection grade. Information provided by Rhodia; Rhodia has been acquired by Solvay.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Technyl-Star-S-218-V30-30-Glass-Reinforced-Nylon-6.php](http://www.lookpolymers.com/polymer_Solvay-Technyl-Star-S-218-V30-30-Glass-Reinforced-Nylon-6.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.95 %	0.95 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	Rhodia Test
Linear Mold Shrinkage, Transverse	0.0065 cm/cm	0.0065 in/in	Rhodia Test

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	Conditioned; ISO 527 2/1A
	190 MPa	27600 psi	DAM; ISO 527 2/1A
Elongation at Break	3.8 %	3.8 %	DAM; ISO 527 2/1A
	4.5 %	4.5 %	Conditioned; ISO 527 2/1A
Tensile Modulus	6.20 GPa	899 ksi	Conditioned; ISO 527 2/1A
	9.60 GPa	1390 ksi	DAM; ISO 527 2/1A
Flexural Modulus	4.90 GPa	711 ksi	Conditioned; ISO 178
	8.40 GPa	1220 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	DAM; ISO 180/1A
	21.0 kJ/m <sup>2</sup>	9.99 ft-lb/in <sup>2</sup>	Conditioned; ISO 180/1A
Izod Impact, Unnotched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	DAM; ISO 180/1U
	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	Conditioned; ISO 180/1U
Charpy Impact Unnotched	8.10 J/cm <sup>2</sup>	38.5 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eU
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA

Mechanical Properties	3.20 J/cm <sup>2</sup> Metric	15.2 ft-lb/in <sup>2</sup> English	Conditioned; ISO 179/1eA Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melting Point	222 Â°C	432 Â°F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	DAM; ISO 75-2/Af
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Rear Barrel Temperature	220 - 225 Â°C	428 - 437 Â°F	
Middle Barrel Temperature	225 - 235 Â°C	437 - 455 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 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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