

## Solvay TECHNYL® C 216 V45 PA6, 45% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

### Material Notes:

Description: Polyamide PA6, reinforced with 45% of glass fiber, for injection molding. Available in: Europe  
 Product Applications: TECHNYL C 216 V45 has been optimized to have high impact strength, a nice surface aspect and being easy to paint. It has been especially developed for the market of ski bindings, but can be advised as well for any part requiring a high rigidity as well as high impact strength. This product is available in natural and black colors  
 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-216-V45-PA6-45-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-C-216-V45-PA6-45-glass-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ISO 1183/A
Water Absorption	0.80 % @Temperature 23.0 °C, Time 86400 sec	0.80 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ISO 527 Type 1A
Elongation at Break	2.5 %	2.5 %	ISO 527 Type 1A
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527 Type 1A
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 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
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature 23.0 - 85.0 °C	11.1 µin/in-°F @Temperature 73.4 - 185 °F	ISO 11359
Melting Point	222 °C	432 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75/Af

Electrical Properties	Metric	English	Comments
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Comparative Tracking Index Electrical Properties	475 V Metric	475 V English	Solution A: IEC 60112 Comments
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Processing Properties	Metric	English	Comments
Feed Temperature	225 - 230 Â°C	437 - 446 Â°F	
Front Barrel Temperature	245 - 255 Â°C	473 - 491 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	240-255Â°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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