

Solvay TECHNYLÂ® A 216 V33 PA66, 33% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

Description: TECHNYLÂ® A 216 V33 is a polyamide 66, reinforced with 33% of glass fiber, for injection molding. This product is available in natural color. Benefits: The product offers an excellent combination between thermal and mechanical properties. Available in: 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-A-216-V33-PA66-33-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/inÂ³	ISO 1183/A
Water Absorption	0.78 % @Temperature 23.0 Â°C, Time 86400 sec	0.78 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0062 cm/cm	0.0062 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	ISO 527 Type 1A
Elongation at Break	3.6 %	3.6 %	ISO 527 Type 1A
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527 Type 1A
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	8.80 GPa	1280 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	95.0 kJ/mÂ²	45.2 ft-lb/inÂ²	ISO 180/1U
Charpy Impact Unnotched	8.90 J/cmÂ²	42.4 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359
	@Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	
Melting Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	650 $\text{Å}^\circ\text{C}$	1200 $\text{Å}^\circ\text{F}$	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	650 $\text{Å}^\circ\text{C}$	1200 $\text{Å}^\circ\text{F}$	Ignition Temperature; ISO 60695-2-13
	@Thickness 3.20 mm	@Thickness 0.126 in	
	750 $\text{Å}^\circ\text{C}$	1380 $\text{Å}^\circ\text{F}$	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	6.00e+14 ohm	6.00e+14 ohm	IEC 60093
Dielectric Constant	3.75	3.75	IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	500 V	500 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	265 - 275 $\text{Å}^\circ\text{C}$	509 - 527 $\text{Å}^\circ\text{F}$	
Mold Temperature	70.0 - 110 $\text{Å}^\circ\text{C}$	158 - 230 $\text{Å}^\circ\text{F}$	
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	270-280Â°C	
Mixing Zone	280-290Â°C	

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