

Solvay TECHNYLÂ® A 216 S30 PA66, 30% glass spheres, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Polyamide 66, reinforced with 30% of glass spheres, for injection molding. Available in: Europe

Product Applications: TECHNYLÂ® A 216 S30 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties.

This grade is recommended for mechanical components which require a very good surface finish with low warpage, and good compression strength. This product is available in natural, black, grey, red, white, and in special colors on request. 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-S30-PA66-30-glass-spheres-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/inÂ³	ISO 1183/A
Water Absorption	0.75 % @Temperature 23.0 Â°C, Time 86400 sec	0.75 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527 Type 1A
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527 type 1 A
Elongation at Break	9.0 %	9.0 %	ISO 527 Type 1A
Elongation at Yield	4.0 %	4.0 %	ISO 527 type 1 A
Tensile Modulus	4.50 GPa	653 ksi	ISO 527 Type 1A
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	3.85 GPa	558 ksi	ISO 178
Izod Impact, Notched (ISO)	2.50 kJ/mÂ²	1.19 ft-lb/inÂ²	ISO 180/1A
Charpy Impact Unnotched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cmÂ²	1.67 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	6.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	3.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	ISO 11359
Melting Point	263 $\text{Å}^\circ\text{C}$	505 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	ISO 1210

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+13 ohm-cm	5.00e+13 ohm-cm	IEC 60093
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 $\text{Å}^\circ\text{C}$	500 - 518 $\text{Å}^\circ\text{F}$	
Front Barrel Temperature	280 - 290 $\text{Å}^\circ\text{C}$	536 - 554 $\text{Å}^\circ\text{F}$	
Mold Temperature	60.0 - 80.0 $\text{Å}^\circ\text{C}$	140 - 176 $\text{Å}^\circ\text{F}$	
Drying Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	
Moisture Content	$\leq 0.20\%$	$\leq 0.20\%$	

Descriptive Properties	Value	Comments
Compression Zone	270-280 $\text{Å}^\circ\text{C}$	

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