

Solvay TECHNYLÂ® B 216 Natural D PA66/6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Unreinforced copolyamide 66/6, medium viscosity, for injection molding. Available in: Europe Product Applications: TECHNYL B 216 offers an excellent combination between impact resistance, rigidity, thermal resistance and surface appearance. It is used in a wide variety of industries (electrical, automotive). This grade is particularly suitable for molding perfume bottles which require a good scratch resistance. This product is available in a wide range of 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-B-216-Natural-D-PA666-DRY.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/inÂ³	ISO 1183/A
Water Absorption	1.6 % @Temperature 23.0 Â°C, Time 86400 sec	1.6 % @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	0.014 cm/cm	0.014 in/in	
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527 Type 1A
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527 type 1 A
Elongation at Break	30 %	30 %	ISO 527 Type 1A
Elongation at Yield	3.6 %	3.6 %	ISO 527 type 1 A
Tensile Modulus	3.00 GPa	435 ksi	ISO 527 Type 1A
Flexural Strength	125 MPa	18100 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear, Parallel to Flow</i>	70.0 Åum/m-Å°C Metric	38.9 Åuin/in-Å°F English	Comments ISO 11359
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
Melting Point	242 Å°C	468 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	67.0 Å°C	153 Å°F	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	23.5 %	23.5 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
Dielectric Strength	26.0 kV/mm	660 kV/in	IEC 60243
Dissipation Factor	0.030	0.030	IEC 60250
Comparative Tracking Index	575 V	575 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	250 - 260 Å°C	482 - 500 Å°F	
Front Barrel Temperature	270 - 280 Å°C	518 - 536 Å°F	
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	260-270Å°C	

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