

Solvay TECHNYL® A 216 PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Unreinforced polyamide 66, medium viscosity, for injection molding. Available in: Asia Pacific and Latin America

Applications: TECHNYL® A 216 offers all of the primary properties of unreinforced polyamide 66, such as: thermal and mechanical properties, impact resistance, abrasion and chemical resistance. This product is used in a wide variety of industries, including: industrial tools, frame of fuel filter for automobile, household appliances (housings fasteners, cable ties, bottle caps). This product is available in a large range of colors, and 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-PA66-DRY.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183/A
Water Absorption	1.3 % @Temperature 23.0 °C, Time 86400 sec	1.3 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527 Type 1A
Tensile Strength, Yield	81.0 MPa	11700 psi	ISO 527 type 1 A
Elongation at Break	30 %	30 %	ISO 527 Type 1A
Elongation at Yield	4.2 %	4.2 %	ISO 527 type 1 A
Tensile Modulus	3.00 GPa	435 ksi	ISO 527 Type 1A
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359
	@Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	
Melting Point	263 $\text{Å}^\circ\text{C}$	505 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	75.0 $\text{Å}^\circ\text{C}$	167 $\text{Å}^\circ\text{F}$	ISO 75/Af
Flammability, UL94	V-2	V-2	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	26.5 %	26.5 %	ISO 4589
Glow Wire Test	650 $\text{Å}^\circ\text{C}$	1200 $\text{Å}^\circ\text{F}$	ISO 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	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 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+14 ohm-cm	4.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Dissipation Factor	0.030	0.030	IEC 60250
Comparative Tracking Index	525 V	525 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	270 - 275 $\text{Å}^\circ\text{C}$	518 - 527 $\text{Å}^\circ\text{F}$	
Front Barrel Temperature	285 - 290 $\text{Å}^\circ\text{C}$	545 - 554 $\text{Å}^\circ\text{F}$	

Mold Temperature Processing Properties	60.0 - 80.0 Â°C Metric	140 - 176 Â°F English	Comments
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	280-285Â°C	

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