

Solvay TECHNYL® A 225F PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Unreinforced polyamide 66, medium viscosity, for injection molding, with a special crystallizing agent, for very fast cycles. Available in: Europe, Latin America and North America Product Applications: TECHNYL® A 225F offers two main advantages excellent filling qualities and UL 94 V2 under 0.4 mm. It is particularly used in electrical applications to mould parts with a good dimensional stability, such as: Unfilled bobbin coil forers for electrical motors, Transformers, and Connectors. This product is available in natural. 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-225F-PA66-DRY.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183/A
Water Absorption	1.1 % @Temperature 23.0 °C, Time 86400 sec	1.1 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0083 cm/cm	0.0083 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527 Type 1A
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527 type 1 A
Elongation at Break	20 %	20 %	ISO 527 Type 1A
Elongation at Yield	5.0 %	5.0 %	ISO 527 type 1 A
Tensile Modulus	3.20 GPa	464 ksi	ISO 527 Type 1A
Flexural Strength	125 MPa	18100 psi	ISO 178
Flexural Modulus	3.15 GPa	457 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	36.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @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)	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	ISO 75/Åf
Flammability, UL94	V-2 @Thickness 0.380 mm	V-2 @Thickness 0.0150 in	1210
	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	1210
	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	1210
Glow Wire Test	960 $\text{Å}^\circ\text{C}$	1760 $\text{Å}^\circ\text{F}$	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+14 ohm-cm	4.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
Dielectric Strength	27.0 kV/mm	686 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	250 - 280 $\text{Å}^\circ\text{C}$	482 - 536 $\text{Å}^\circ\text{F}$	
Front Barrel Temperature	270 - 300 $\text{Å}^\circ\text{C}$	518 - 572 $\text{Å}^\circ\text{F}$	
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	260-290 $\text{Å}^\circ\text{C}$	

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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China