

Solvay Technyl® A 205F Nylon 66, EH50

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Unreinforced polyamide 66, high fluidity, fast cycling grade, for injection molding. Technyl A 205F offers two main advantages: excellent filling qualities and UL 94 V2 under 0.4 mm. It is particularly suitable for the molding of long parts with thin wall sections, such as: cable tie, fasteners, and connectors. This product is available in natural, black and in colors on request. Glow wire test thick. 1,6 mm, IEC 695-2-1, is 960°C. 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-205F-Nylon-66-EH50.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183-A
Water Absorption	1.2 %	1.2 %	(Beginning Dry) 24 hours in water 23°C. ISO 62
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	RHODIA-EP
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	RHODIA-EP

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Break	200 %	200 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	1.60 GPa	232 ksi	ISO 527
Flexural Yield Strength	50.0 MPa	7250 psi	ISO 178
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact Resistance	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179/EU-1993
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ISO 3146-C

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+13 ohm-cm Metric	1.00e+13 ohm-cm English	IEC 93 Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 93
Dielectric Constant	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	26.0 kV/mm	660 kV/in	IEC 243-1
Dissipation Factor	0.080 @Frequency 1e+6 Hz	0.080 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 275 Å°C	518 - 527 Å°F	
Middle Barrel Temperature	280 - 285 Å°C	536 - 545 Å°F	
Front Barrel Temperature	285 - 290 Å°C	545 - 554 Å°F	

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