

Solvay Technyl® A 205F Nylon 66, EH0

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

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, 850°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-EH0.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 %	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	60.0 MPa	8700 psi	ISO 527
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Tensile Modulus	3.20 GPa	464 ksi	ISO 527
Flexural Yield Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact Resistance	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179/EU-1993
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ASTM E831
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
Melting Point	263 Å°C	505 Å°F	ISO 3146-C

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	75.8 Â°C	167 Â°F	ISO 15-2
Flammability, UL94	V-2	V-2	ISO 1210/UL 94
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	V-2	V-2	
	@Thickness 0.800 mm	@Thickness 0.0315 in	ISO 1210/UL 94
	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	28.5 %	28.5 %	ISO 4589

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	5.00e+14 ohm	5.00e+14 ohm	IEC 93
Dielectric Constant	2.9	2.9	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	IEC 243-1
Dissipation Factor	0.030	0.030	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 112

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

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