

Solvay Technyl® C 206 Nylon 6, EH50

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Unreinforced Polyamide PA6, standard for fast cycling, for injection molding. Technyl C 206 has high fluidity and good mold release, favored by a high crystallization rate. It is specially suitable for the production of technical molding with fast injection cycles. 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-C-206-Nylon-6-EH50.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183-A
Water Absorption	1.3 %	1.3 %	(Beginning Dry) 24 hours in water 23°C. ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527
Elongation at Break	270 %	270 %	ISO 527
Tensile Modulus	1.10 GPa	160 ksi	ISO 527
Flexural Yield Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	1.00 GPa	145 ksi	ISO 178
Izod Impact Resistance	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 3146-C

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	IEC 93
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 93
Dielectric Constant	3.9 @Frequency 1e+6 Hz	3.9 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	18.0 kV/mm	457 kV/in	IEC 243-1
Dissipation Factor	0.10 @Frequency 1e+6 Hz	0.10 @Frequency 1e+6 Hz	IEC 250

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 230 Å°C	428 - 446 Å°F	
Middle Barrel Temperature	225 - 235 Å°C	437 - 455 Å°F	
Front Barrel Temperature	230 - 240 Å°C	446 - 464 Å°F	

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