

Solvay TECHNYL® A 205F PA66, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: TECHNYL® A 205F is an unreinforced polyamide 66 for injection molding. It is available in natural color. Benefits: The product 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. Available in: Asia Pacific, Europe, Latin America and North America Regulations compliance: Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC. This grade complies with RoHS directive 2002/95/EC. Unless specified, this grade is not suitable for food contact, medical devices or toy applications. Applications: Cable ties, fasteners or connectors 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-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527 Type 1A
Tensile Stress	5.00 MPa	725 psi	
	@Strain 2.50 %, Temperature 150 °C	@Strain 2.50 %, Temperature 302 °F	
	8.00 MPa	1160 psi	
	@Strain 2.50 %, Temperature 120 °C	@Strain 2.50 %, Temperature 248 °F	
	8.00 MPa	1160 psi	
	@Strain 5.00 %, Temperature 150 °C	@Strain 5.00 %, Temperature 302 °F	
	10.0 MPa	1450 psi	
	@Strain 2.50 %, Temperature 80.0 °C	@Strain 2.50 %, Temperature 176 °F	
	10.0 MPa	1450 psi	
	@Strain 5.00 %, Temperature 120 °C	@Strain 5.00 %, Temperature 248 °F	
	13.0 MPa	1890 psi	
	@Strain 10.0 %, Temperature 150 °C	@Strain 10.0 %, Temperature 302 °F	
	15.0 MPa	2180 psi	
	@Strain 2.50 %,	@Strain 2.50 %,	

Mechanical Properties	Temperature 23.0 Å°C Metric	Temperature 73.4 Å°F English	Comments
	15.0 MPa	2180 psi	
	@Strain 5.00 %, Temperature 80.0 Å°C	@Strain 5.00 %, Temperature 176 Å°F	
	19.0 MPa	2760 psi	
	@Strain 20.0 %, Temperature 150 Å°C	@Strain 20.0 %, Temperature 302 Å°F	
	22.0 MPa	3190 psi	
	@Strain 10.0 %, Temperature 80.0 Å°C	@Strain 10.0 %, Temperature 176 Å°F	
	22.0 MPa	3190 psi	
	@Strain 20.0 %, Temperature 120 Å°C	@Strain 20.0 %, Temperature 248 Å°F	
	25.0 MPa	3630 psi	
	@Strain 2.50 %, Temperature 0.000 Å°C	@Strain 2.50 %, Temperature 32.0 Å°F	
	26.0 MPa	3770 psi	
	@Strain 5.00 %, Temperature 23.0 Å°C	@Strain 5.00 %, Temperature 73.4 Å°F	
	28.0 MPa	4060 psi	
	@Strain 10.0 %, Temperature 120 Å°C	@Strain 10.0 %, Temperature 248 Å°F	
	30.0 MPa	4350 psi	
	@Strain 20.0 %, Temperature 80.0 Å°C	@Strain 20.0 %, Temperature 176 Å°F	
	34.0 MPa	4930 psi	
	@Strain 20.0 %, Temperature 23.0 Å°C	@Strain 20.0 %, Temperature 73.4 Å°F	
	39.0 MPa	5660 psi	
	@Strain 10.0 %, Temperature 23.0 Å°C	@Strain 10.0 %, Temperature 73.4 Å°F	
	58.0 MPa	8410 psi	
	@Strain 5.00 %, Temperature 0.000 Å°C	@Strain 5.00 %, Temperature 32.0 Å°F	
	68.0 MPa	9860 psi	
	@Strain 10.0 %, Temperature 0.000 Å°C	@Strain 10.0 %, Temperature 32.0 Å°F	
	71.0 MPa	10300 psi	

Mechanical Properties	Metric	English	Comments
	@ Strain 20.0 %, Temperature 0.000 Å°C	@ Strain 20.0 %, Temperature 32.0 Å°F	
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527 type 1 A
Elongation at Break	250 %	250 %	ISO 527 Type 1A
Elongation at Yield	10 %	10 %	ISO 527 type 1 A
Tensile Modulus	1.40 GPa	203 ksi	ISO 527 Type 1A
Flexural Strength	50.0 MPa	7250 psi	ISO 178
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/mÅ²	3.81 ft-lb/inÅ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1U
Charpy Impact, Notched	1.00 J/cmÅ²	4.76 ft-lb/inÅ²	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
Dielectric Strength	26.0 kV/mm	660 kV/in	IEC 60243
Dissipation Factor	0.050	0.050	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.20 %	<= 0.20 %	

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