

Solvay TECHNYL[®] A 208F PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Unreinforced polyamide PA66, heat stabilized, high fluidity, fast cycling grade, for injection molding. Available in:

Europe Product Applications: TECHNYL A 208F offers three main advantages: excellent filling qualities, good long term thermal properties and is V2 rated under 0.4 mm. according to UL94. It is particularly suitable for the molding of long parts with thin wall sections requiring good thermal resistance: cable ties and fasteners and connectors. This product is available in natural and black. 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-208F-PA66-DRY.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 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527 Type 1A
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527 type 1 A
Elongation at Yield	7.0 %	7.0 %	ISO 527 type 1 A
Tensile Modulus	3.20 GPa	464 ksi	ISO 527 Type 1A
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 Åµm/m-Å°C	7.00 Åµin/in-Å°F	ISO 11359
	@Temperature 23.0 -	@Temperature 73.4 -	

Thermal Properties	85.0 Å°C Metric	185 Å°F English	Comments
Melting Point	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Å°C	167 Å°F	ISO 75/ Af
Flammability, UL94	V-2	V-2	ISO 1210
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	V-2	V-2	ISO 1210
@Thickness 0.800 mm	@Thickness 0.0315 in		
	V-2	V-2	ISO 1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	26 %	26 %	ISO 4589
Glow Wire Test	650 Å°C	1200 Å°F	Ignition Temperature; ISO 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	850 Å°C	1560 Å°F	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+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	0.030	0.030	IEC 60250
Comparative Tracking Index	375 V	375 V	Solution B; IEC 60112
	475 V	475 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	270 - 275 Å°C	518 - 527 Å°F	
Front Barrel Temperature	285 - 290 Å°C	545 - 554 Å°F	
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Mixing Zone	280-285Å°C	

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