

Solvay Technyl® A218 Heat Stabilized Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

Material Notes:

Information provided by Rhodia; Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Technyl-A218-Heat-Stabilized-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	24 Hr.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	90.3 MPa	13100 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	ASTM D638
Flexural Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
Izod Impact, Notched	0.502 J/cm	0.940 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	255 Â°C	491 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	226 Â°C	438 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 Â°C	180 Â°F	ASTM D648
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Feed Temperature	250 - 270 Â°C	482 - 518 Â°F	
Middle Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	Compression Zone
Front Barrel Temperature	270 - 300 Â°C	518 - 572 Â°F	

Nozzle Temperature Processing Properties	280 - 290 Â°C Metric	536 - 554 Â°F English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Surface
Drying Temperature	80.0 Â°C	176 Â°F	Dehumidifying Dryer
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Fill Speed	300 - 600 mm/sec	11.8 - 23.6 in/sec	Peripheral Screw Speed

Descriptive Properties	Value	Comments
Injection Speed (cm3/sec)	50 - 150 cm ³ /sec	

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