

## Solvay Technyl® A218V43 43% Glass Filled, Heat Stabilized Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

### 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-A218V43-43-Glass-Filled-Heat-Stabilized-Nylon-66.php](http://www.lookpolymers.com/polymer_Solvay-Technyl-A218V43-43-Glass-Filled-Heat-Stabilized-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ISO 1183-A
Water Absorption	0.70 %	0.70 %	24 Hr.; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	230 MPa	33400 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	13.8 GPa	2000 ksi	ISO 527
Flexural Strength	310 MPa	45000 psi	ISO 178
Flexural Modulus	11.0 GPa	1600 ksi	ISO 178
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	263.0 Â°C	505.4 Â°F	ISO 3146-C
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 Â°F	ISO 75-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Â°C	500 - 518 Â°F	
Middle Barrel Temperature	270 - 280 Â°C	518 - 536 Â°F	Compression Zone
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	
Nozzle Temperature	271 - 279 Â°C	520 - 535 Â°F	
Melt Temperature	270 - 300 Â°C	518 - 572 Â°F	

Mold Temperature Processing Properties	80.0 - 120 Â°C Metric	176 - 248 Â°F English	Surface Comments
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	0.138 - 0.345 MPa	20.0 - 50.0 psi	
Fill Speed	200 - 300 mm/sec	7.87 - 11.8 in/sec	Peripheral Screw Speed

Descriptive Properties	Value	Comments
Injection Speed (cm3/sec)	120 - 170 cm <sup>3</sup> /sec	

## Contact Songhan Plastic Technology Co.,Ltd.

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