

## Solvay Technyl® A218GV33-BK 33% Glass Filled, Heat Stabilized, Hydrolysis Resistant, Black Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% 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-A218GV33-BK-33-Glass-Filled-Heat-Stabilized-Hydrolysis-Resistant-Black-Nylon-66.php](http://www.lookpolymers.com/polymer_Solvay-Technyl-A218GV33-BK-33-Glass-Filled-Heat-Stabilized-Hydrolysis-Resistant-Black-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ISO 1183-A
Linear Mold Shrinkage, Flow	0.0036 - 0.0108 cm/cm	0.0036 - 0.0108 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	ISO 527
Elongation at Break	3.4 %	3.4 %	ISO 527
Tensile Modulus	10.2 GPa	1480 ksi	ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	9.51 GPa	1380 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	260 Å°C	500 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	250 Å°C	482 Å°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 Å°C	500 - 518 Å°F	
Middle Barrel Temperature	270 - 280 Å°C	518 - 536 Å°F	Compression Zone
Front Barrel Temperature	280 - 290 Å°C	536 - 554 Å°F	
Nozzle Temperature	271 - 279 Å°C	520 - 535 Å°F	

Melt Temperature Processing Properties	270 - 300 Å°C Metric	518 - 572 Å°F English	Comments
Mold Temperature	80.0 - 120 Å°C	176 - 248 Å°F	Surface
Drying Temperature	80.0 Å°C	176 Å°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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