

## Solvay TECHNYLÂ® A 218 V35 PA66, 35% glass fiber, Conditioned

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

### Material Notes:

Description: TECHNYLÂ® A 218 V35 is a polyamide 66, reinforced with 35% of glass fiber, heat stabilized, for injection molding. This product is available in natural and black colors. Benefits: The product offers an excellent combination between thermal and mechanical properties. 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: It is used in a wide variety of industries. 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-218-V35-PA66-35-glass-fiber-Conditioned.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-V35-PA66-35-glass-fiber-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/inÂ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527 Type 1A
Tensile Stress	35.0 MPa	5080 psi	
	@Strain 1.00 %, Temperature 120 Â°C	@Strain 1.00 %, Temperature 248 Â°F	
	45.0 MPa	6530 psi	
	@Strain 1.00 %, Temperature 80.0 Â°C	@Strain 1.00 %, Temperature 176 Â°F	
	50.0 MPa	7250 psi	
	@Strain 1.00 %, Temperature 60.0 Â°C	@Strain 1.00 %, Temperature 140 Â°F	
	55.0 MPa	7980 psi	
	@Strain 2.00 %, Temperature 120 Â°C	@Strain 2.00 %, Temperature 248 Â°F	
	65.0 MPa	9430 psi	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	70.0 MPa	10200 psi	
	@Strain 3.00 %, Temperature 120 Â°C	@Strain 3.00 %, Temperature 248 Â°F	
	70.0 MPa	10200 psi	
	@Strain 2.00 %,	@Strain 2.00 %,	

Mechanical Properties	Temperature 80.0 Â°C Metric	Temperature 176 Â°F English	Comments
	80.0 MPa	11600 psi	
	@Strain 4.00 %, Temperature 120 Â°C	@Strain 4.00 %, Temperature 248 Â°F	
	80.0 MPa	11600 psi	
	@Strain 2.00 %, Temperature 60.0 Â°C	@Strain 2.00 %, Temperature 140 Â°F	
	85.0 MPa	12300 psi	
	@Strain 3.00 %, Temperature 80.0 Â°C	@Strain 3.00 %, Temperature 176 Â°F	
	85.0 MPa	12300 psi	
	@Strain 6.00 %, Temperature 120 Â°C	@Strain 6.00 %, Temperature 248 Â°F	
	90.0 MPa	13100 psi	
	@Strain 4.00 %, Temperature 80.0 Â°C	@Strain 4.00 %, Temperature 176 Â°F	
	90.0 MPa	13100 psi	
	@Strain 1.00 %, Temperature 0.000 Â°C	@Strain 1.00 %, Temperature 32.0 Â°F	
	95.0 MPa	13800 psi	
	@Strain 6.00 %, Temperature 80.0 Â°C	@Strain 6.00 %, Temperature 176 Â°F	
	100 MPa	14500 psi	
	@Strain 4.00 %, Temperature 60.0 Â°C	@Strain 4.00 %, Temperature 140 Â°F	
	100 MPa	14500 psi	
	@Strain 3.00 %, Temperature 60.0 Â°C	@Strain 3.00 %, Temperature 140 Â°F	
	105 MPa	15200 psi	
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	
	105 MPa	15200 psi	
	@Strain 6.00 %, Temperature 60.0 Â°C	@Strain 6.00 %, Temperature 140 Â°F	
	120 MPa	17400 psi	
	@Strain 1.00 %, Temperature -40.0 Â°C	@Strain 1.00 %, Temperature -40.0 Â°F	
	125 MPa	18100 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 3.00 %, Temperature 23.0 Â°C	@Strain 3.00 %, Temperature 73.4 Â°F	
	160 MPa	23200 psi	
	@Strain 2.00 %, Temperature 0.000 Â°C	@Strain 2.00 %, Temperature 32.0 Â°F	
	200 MPa	29000 psi	
	@Strain 2.00 %, Temperature -40.0 Â°C	@Strain 2.00 %, Temperature -40.0 Â°F	
Elongation at Break	4.0 %	4.0 %	ISO 527 Type 1A
Tensile Modulus	8.70 GPa	1260 ksi	ISO 527 Type 1A
Flexural Modulus	6.80 GPa	986 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/mÂ²	8.57 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	10.0 J/cmÂ²	47.6 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.85 J/cmÂ²	8.80 ft-lb/inÂ²	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+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
Dielectric Strength	29.0 kV/mm	737 kV/in	IEC 60243
Dissipation Factor	0.11	0.11	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

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

## Contact Songhan Plastic Technology Co.,Ltd.

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