

## Solvay TECHNYLÂ® A 548B2 V15 PA66, 15% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

### Material Notes:

Description: TECHNYLÂ® A 548B2 V15 is a polyamide 6.6, reinforced with 15% of glass fiber, heat stabilized, impact modified, for blow molding. This product is available in black color. Benefits: The product offers an excellent long term heat resistance and is suitable to work in environments characterized by a very high temperature. It has been also specially designed to be perfectly suitable for blow molding processing. Available in: Europe 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: Thanks to its very high melt strength, this product can be used to produce hollow parts, by suction or 3D blow molding technology, like tanks or ducts where a long parison is needed. Typical applications are turbo air ducts, especially inlet ducts up to 210Â°C. 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-548B2-V15-PA66-15-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-548B2-V15-PA66-15-glass-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/inÂ³	ISO 1183/A
Viscosity	200 cP	200 cP	
	@Shear Rate 1000 1/s, Temperature 275 Â°C	@Shear Rate 1000 1/s, Temperature 527 Â°F	
	1000 cP	1000 cP	
	@Shear Rate 100 1/s, Temperature 275 Â°C	@Shear Rate 100 1/s, Temperature 527 Â°F	
	2000 cP	2000 cP	
	@Shear Rate 10.0 1/s, Temperature 275 Â°C	@Shear Rate 10.0 1/s, Temperature 527 Â°F	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527 Type 1A
Tensile Stress	5.00 MPa	725 psi	
	@Strain 1.00 %, Temperature 200 Â°C	@Strain 1.00 %, Temperature 392 Â°F	
	5.00 MPa	725 psi	
	@Strain 1.00 %,	@Strain 1.00 %,	

Mechanical Properties	Temperature 230 Â°C Metric	Temperature 446 Â°F English	Comments
	10.0 MPa	1450 psi	
	@Strain 2.00 %, Temperature 230 Â°C	@Strain 2.00 %, Temperature 446 Â°F	
	12.0 MPa	1740 psi	
	@Strain 1.00 %, Temperature 120 Â°C	@Strain 1.00 %, Temperature 248 Â°F	
	12.0 MPa	1740 psi	
	@Strain 1.00 %, Temperature 160 Â°C	@Strain 1.00 %, Temperature 320 Â°F	
	12.0 MPa	1740 psi	
	@Strain 2.00 %, Temperature 200 Â°C	@Strain 2.00 %, Temperature 392 Â°F	
	12.0 MPa	1740 psi	
	@Strain 3.00 %, Temperature 230 Â°C	@Strain 3.00 %, Temperature 446 Â°F	
	15.0 MPa	2180 psi	
	@Strain 1.00 %, Temperature 80.0 Â°C	@Strain 1.00 %, Temperature 176 Â°F	
	15.0 MPa	2180 psi	
	@Strain 6.00 %, Temperature 230 Â°C	@Strain 6.00 %, Temperature 446 Â°F	
	19.0 MPa	2760 psi	
	@Strain 3.00 %, Temperature 200 Â°C	@Strain 3.00 %, Temperature 392 Â°F	
	20.0 MPa	2900 psi	
	@Strain 2.00 %, Temperature 160 Â°C	@Strain 2.00 %, Temperature 320 Â°F	
	20.0 MPa	2900 psi	
	@Strain 12.0 %, Temperature 230 Â°C	@Strain 12.0 %, Temperature 446 Â°F	
	21.0 MPa	3050 psi	
	@Strain 3.00 %, Temperature 160 Â°C	@Strain 3.00 %, Temperature 320 Â°F	
	21.0 MPa	3050 psi	
	@Strain 6.00 %, Temperature 200 Â°C	@Strain 6.00 %, Temperature 392 Â°F	
	22.0 MPa	3190 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 2.00 %, Temperature 120 Â°C	@Strain 2.00 %, Temperature 248 Â°F	
	<b>25.0 MPa</b>	<b>3630 psi</b>	
	@Strain 2.00 %, Temperature 80.0 Â°C	@Strain 2.00 %, Temperature 176 Â°F	
	<b>28.0 MPa</b>	<b>4060 psi</b>	
	@Strain 6.00 %, Temperature 160 Â°C	@Strain 6.00 %, Temperature 320 Â°F	
	<b>30.0 MPa</b>	<b>4350 psi</b>	
	@Strain 3.00 %, Temperature 120 Â°C	@Strain 3.00 %, Temperature 248 Â°F	
	<b>30.0 MPa</b>	<b>4350 psi</b>	
	@Strain 12.0 %, Temperature 200 Â°C	@Strain 12.0 %, Temperature 392 Â°F	
	<b>32.0 MPa</b>	<b>4640 psi</b>	
	@Strain 12.0 %, Temperature 160 Â°C	@Strain 12.0 %, Temperature 320 Â°F	
	<b>35.0 MPa</b>	<b>5080 psi</b>	
	@Strain 1.00 %, Temperature -40.0 Â°C	@Strain 1.00 %, Temperature -40.0 Â°F	
	<b>35.0 MPa</b>	<b>5080 psi</b>	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	<b>35.0 MPa</b>	<b>5080 psi</b>	
	@Strain 3.00 %, Temperature 80.0 Â°C	@Strain 3.00 %, Temperature 176 Â°F	
	<b>40.0 MPa</b>	<b>5800 psi</b>	
	@Strain 6.00 %, Temperature 120 Â°C	@Strain 6.00 %, Temperature 248 Â°F	
	<b>42.0 MPa</b>	<b>6090 psi</b>	
	@Strain 12.0 %, Temperature 120 Â°C	@Strain 12.0 %, Temperature 248 Â°F	
	<b>45.0 MPa</b>	<b>6530 psi</b>	
	@Strain 6.00 %, Temperature 80.0 Â°C	@Strain 6.00 %, Temperature 176 Â°F	
	<b>45.0 MPa</b>	<b>6530 psi</b>	
	@Strain 12.0 %, Temperature 80.0 Â°C	@Strain 12.0 %, Temperature 176 Â°F	

Mechanical Properties	Metric	English	Comments
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	
	90.0 MPa	13100 psi	
	@Strain 2.00 %, Temperature -40.0 Â°C	@Strain 2.00 %, Temperature -40.0 Â°F	
	90.0 MPa	13100 psi	
	@Strain 3.00 %, Temperature 23.0 Â°C	@Strain 3.00 %, Temperature 73.4 Â°F	
	120 MPa	17400 psi	
	@Strain 3.00 %, Temperature -40.0 Â°C	@Strain 3.00 %, Temperature -40.0 Â°F	
	140 MPa	20300 psi	
	@Strain 4.00 %, Temperature -40.0 Â°C	@Strain 4.00 %, Temperature -40.0 Â°F	
Elongation at Break	4.7 %	4.7 %	ISO 527 Type 1A
Tensile Modulus	4.90 GPa	711 ksi	ISO 527 Type 1A
Flexural Strength	129 MPa	18700 psi	ISO 178
Flexural Modulus	4.20 GPa	609 ksi	ISO 178
Charpy Impact Unnotched	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.35 J/cmÂ²	6.42 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	260 Â°C	500 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ISO 75/Af

Processing Properties	Metric	English	Comments
Feed Temperature	250 - 270 Â°C	482 - 518 Â°F	
Adapter Temperature	255 - 275 Â°C	491 - 527 Â°F	
Die Temperature	260 - 280 Â°C	500 - 536 Â°F	
Head Temperature	260 - 280 Â°C	500 - 536 Â°F	
Screw Cooling Temperature	255 - 275 Â°C	491 - 527 Â°F	

Mold Temperature Processing Properties	40.0 - 60.0 Â°C Metric	104 - 140 Â°F English	Comments
Drying Temperature	80.0 Â°C @Time 28800 sec	176 Â°F @Time 8.00 hour	dew point -35Â°C
Moisture Content	<= 0.080 %	<= 0.080 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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