

## Solvay TECHNYLÂ® A 60 G1 V25 PA66, 25% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% Glass Fiber Filled

### Material Notes:

**Description:** TECHNYLÂ® A 60G1 V25 is a 25% GF reinforced organophosphorous flame retarded grade based on a patented high flow polyamide 66 resin. This product is heat stabilized and provides optimized injection molding performance. This product is available in natural, grey & black colors as standard and can be made in other specific colors upon request.  
**Benefits:** This product offers excellent flame retardancy properties (UL 94, 5VA, GWIT) combined with excellent processing, mechanical and electrical performance. It can withstand temperatures of 160Â°C for over 6000 hours and has a UL F1 rating for weatherability resistance.  
**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:** This product is ideally suited for industrial controls, power distribution or appliance applications such as MCBs and contactors. The long term thermal performance of this grade also make it ideal for under-the-bonnet Auto applications.  
**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-60-G1-V25-PA66-25-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-60-G1-V25-PA66-25-glass-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/inÂ³	ISO 1183/A
Water Absorption	0.83 % @Temperature 23.0 Â°C, Time 86400 sec	0.83 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	
Melt Flow	27 g/10 min @Load 5.00 kg, Temperature 275 Â°C	27 g/10 min @Load 11.0 lb, Temperature 527 Â°F	ISO/FDIS 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ASTM D638
	142 MPa	20600 psi	ISO 527 Type 1A
Tensile Stress	30.0 MPa @Strain 1.00 %, Temperature 140 Â°C	4350 psi @Strain 1.00 %, Temperature 284 Â°F	
	37.0 MPa	5370 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 1.00 %, Temperature 100 Â°C	@Strain 1.00 %, Temperature 212 Â°F	
	<b>41.0 MPa</b>	<b>5950 psi</b>	
	@Strain 2.00 %, Temperature 140 Â°C	@Strain 2.00 %, Temperature 284 Â°F	
	<b>45.0 MPa</b>	<b>6530 psi</b>	
	@Strain 1.00 %, Temperature 60.0 Â°C	@Strain 1.00 %, Temperature 140 Â°F	
	<b>50.0 MPa</b>	<b>7250 psi</b>	
	@Strain 4.00 %, Temperature 140 Â°C	@Strain 4.00 %, Temperature 284 Â°F	
	<b>60.0 MPa</b>	<b>8700 psi</b>	
	@Strain 2.00 %, Temperature 100 Â°C	@Strain 2.00 %, Temperature 212 Â°F	
	<b>70.0 MPa</b>	<b>10200 psi</b>	
	@Strain 4.00 %, Temperature 100 Â°C	@Strain 4.00 %, Temperature 212 Â°F	
	<b>80.0 MPa</b>	<b>11600 psi</b>	
	@Strain 1.00 %, Temperature -40.0 Â°C	@Strain 1.00 %, Temperature -40.0 Â°F	
	<b>80.0 MPa</b>	<b>11600 psi</b>	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	<b>80.0 MPa</b>	<b>11600 psi</b>	
	@Strain 2.00 %, Temperature 60.0 Â°C	@Strain 2.00 %, Temperature 140 Â°F	
	<b>85.0 MPa</b>	<b>12300 psi</b>	
	@Strain 4.00 %, Temperature 60.0 Â°C	@Strain 4.00 %, Temperature 140 Â°F	
	<b>122 MPa</b>	<b>17700 psi</b>	
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	
	<b>140 MPa</b>	<b>20300 psi</b>	
	@Strain 2.00 %, Temperature -40.0 Â°C	@Strain 2.00 %, Temperature -40.0 Â°F	
<b>Elongation at Break</b>	<b>2.0 %</b>	<b>2.0 %</b>	<b>ISO 527 Type 1A</b>
	<b>2.8 %</b>	<b>2.8 %</b>	<b>ASTM D638</b>

Mechanical Properties	9.50 GPa Metric	1380 ksi English	ISO 527 Type 1A Comments
Flexural Strength	195 MPa	28300 psi	ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Izod Impact, Notched (ISO)	95.0 kJ/m <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	ISO 180/1eA
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 μm/m-°C	16.7 μin/in-°F	ISO 11359
	@Temperature 23.0 - 85.0 °C	@Temperature 73.4 - 185 °F	
Melting Point	262 °C	504 °F	ASTM D3417
	263 °C	505 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	ISO 75/ Af
	246 °C	475 °F	ASTM D648
UL RTI, Electrical	65.0 °C	149 °F	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	130 °C	266 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	130 °C	266 °F	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
UL RTI, Electrical	130 °C	266 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 °C	266 °F	
@Thickness 3.00 mm	@Thickness 0.118 in		

Thermal Properties <i>UL, FTI, Mechanical with Impact</i>	55.0 Â°C Metric	149 Â°F English	Comments
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	105 Â°C	221 Â°F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	105 Â°C	221 Â°F	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	115 Â°C	239 Â°F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	115 Â°C	239 Â°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	33 %	33 %	ISO 4589
Glow Wire Test	775 Â°C	1430 Â°F	ignition temperature; ISO 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	775 Â°C	1430 Â°F	ignition temperature; ISO 60695-2-13
	@Thickness 3.20 mm	@Thickness 0.126 in	
	960 Â°C	1760 Â°F	ISO 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 Â°C	1760 Â°F	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	960 Â°C	1760 Â°F	ISO 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Comparative Tracking Index	550 V	550 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 275 Â°C	500 - 527 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	275-280Â°C	
Mixing Zone	280-285Â°C	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China