

Solvay TECHNYLSTAR[®],ç S 60G1 V30 PA6, 30% glass filled, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Description: TECHNYLSTAR[®],ç S 60G1 V30 is a reinforced 30% GF organophosphorous flame retarded grade based on a patented high flow polyamide 6 resin (TechnylStar). This product is heat stabilized and provides optimized injection moulding 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 best in class processing, mechanical and electrical performance. 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 power distribution, industrial control and appliance applications such as MCBs and contactors, as well as being able to be used in many varied thin wall applications where its high flow polymer base enables it to achieve a UL94 V-0 rating down to a 0.4mm wall thickness. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYLSTAR-S-60G1-V30-PA6-30-glass-filled-DRY.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183/A
Water Absorption	0.90 % @Temperature 23.0 °C, Time 86400 sec	0.90 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Viscosity	50 cP @Shear Rate 1000 1/s, Temperature 270 °C	50 cP @Shear Rate 1000 1/s, Temperature 518 °F	
	120 cP @Shear Rate 1000 1/s, Temperature 250 °C	120 cP @Shear Rate 1000 1/s, Temperature 482 °F	
	120 cP @Shear Rate 100 1/s, Temperature 270 °C	120 cP @Shear Rate 100 1/s, Temperature 518 °F	
	200 cP @Shear Rate 1000 1/s, Temperature 230 °C	200 cP @Shear Rate 1000 1/s, Temperature 446 °F	
	200 cP @Shear Rate 100 1/s, Temperature 250 °C	200 cP @Shear Rate 100 1/s, Temperature 482 °F	
	300 cP	300 cP	

Physical Properties	Metric @Shear Rate 100 1/s, Temperature 230 Â°C	English @Shear Rate 100 1/s, Temperature 446 Â°F	Comments
Linear Mold Shrinkage	0.0057 cm/cm	0.0057 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	147 MPa	21300 psi	ISO 527 Type 1A
	155 MPa	22500 psi	ASTM D638
Tensile Stress	90.0 MPa @Strain 1.00 %	13100 psi @Strain 1.00 %	
	135 MPa @Strain 2.00 %	19600 psi @Strain 2.00 %	
Elongation at Break	2.4 %	2.4 %	ISO 527 Type 1A
	2.5 %	2.5 %	ASTM D638
Tensile Modulus	11.8 GPa	1710 ksi	ISO 527 Type 1A
Flexural Strength	240 MPa	34800 psi	ASTM D790
	243 MPa	35200 psi	ISO 178
Flexural Modulus	10.5 GPa	1520 ksi	ASTM D790
	10.7 GPa	1550 ksi	ISO 178
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	54.0 kJ/mÂ²	25.7 ft-lb/inÂ²	ISO 180/1eU
Charpy Impact Unnotched	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	0.960 J/cmÂ²	4.57 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75/ Af
	65.0 Â°C	149 Â°F	

UL RTI Electrical Thermal Properties	Metric @Thickness 0.400 mm	English @Thickness 0.0157 in	Comments
	130 Å°C	266 Å°F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	130 Å°C	266 Å°F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 Å°C	266 Å°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	130 Å°C	266 Å°F	NC,BK
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 Å°C	266 Å°F	NC,BK
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 Å°C	149 Å°F	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	105 Å°C	221 Å°F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	115 Å°C	239 Å°F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	115 Å°C	239 Å°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	115 Å°C	239 Å°F	NC, BK
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	115 Å°C	239 Å°F	NC, BK
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	1210
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	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	

Thermal Properties	Metric	English	Comments
Oxygen Index	35 %	35 %	ISO 4589
Glow Wire Test	775 Â°C	1430 Â°F	ignition temperature; ISO 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	800 Â°C	1470 Â°F	ignition temperature; ISO 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 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
Surface Resistance	1.10e+14 ohm	1.10e+14 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	230 - 235 Â°C	446 - 455 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	235-240Â°C	
Mixing Zone	235-240Â°C	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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