

TECHNYL STAR™ S 60G1 V30 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYLSTAR™ S 60G1 V30 Natural 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 produc

General Information				
UL YellowCard		E44716-235537		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Good Electrical Properties		
		Good Processability		
		Heat Stabilized		
		High Flow		
Uses		Appliances		
		Thin-walled Parts		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
		Colors Available		
		Grey		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6-GF30 FR(40)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Water Absorption (23°C, 24 hr)				ISO 62
Water Absorption (23°C, 24 hr)	0.90	--	%	
Molding Shrinkage Isotropy				Internal Method
Molding Shrinkage Isotropy	0.570	--		
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	11800	8500	MPa	ISO 527-2/1A
Tensile Strength				
Break	155	--	MPa	ASTM D638
Break	147	97.0	MPa	ISO 527-2/1A
Tensile Elongation				
Break	2.5	--	%	ASTM D638
Break	2.4	5.1	%	ISO 527-2/1A
Flexural Modulus				
--	10500	--	MPa	ASTM D790
--	10700	7100	MPa	ISO 178
Flexural Strength				
--	240	--	MPa	ASTM D790
--	243	175	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.6	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	120	--	J/m	ASTM D256
23°C	10	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	54	63	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.1E+14	--	ohms	IEC 60093
Electric Strength	25	23	kV/mm	IEC 60243-1
Relative Permittivity	2.90	4.35		IEC 60250
Dissipation Factor	--	0.080		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.380 mm	V-0	--		
0.800 mm	V-0	--		
1.60 mm	V-0	--		
3.20 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	

1.60 mm	960	--	°C	
3.20 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	775	--	°C	
1.60 mm	800	--	°C	
Oxygen Index	35	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 to 235		°C	
Middle Temperature	235 to 240		°C	
Front Temperature	240 to 245		°C	
Mold Temperature	60.0 to 80.0		°C	

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Recommended distributors for this material

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