TECHNYL® C 218 V33 NATURAL

Polyamide 6

Solvay Engineering Plastics

Message:

Polyamide PA6, reinforced with 33% of glass fibre, heat stabilized, for injection moulding.

General Information	
Filler / Reinforcement	Glass Fiber,33% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized
Uses	Automotive Applications Electrical/Electronic Applications
Appearance	Colors Available
Processing Method	Injection Molding
Part Marking Code (ISO 11469)	>PA6-GF33<

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.37	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Water Absorption (23°C, 24 hr)	0.92	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10200	6620	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	193	113	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.1	4.2	%	ISO 527-2
Flexural Modulus (23°C)	9660	6040	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	16	32	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	15	26	kJ/m²	ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
CLTE - Flow (23 to 85°C)	2.9E-5	--	cm/cm/°C	ASTM E831
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume Resistivity (23°C)	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength (23°C)	--	22	kV/mm	IEC 60243-1

Relative Permittivity (23°C, 1 MHz)	3.80	4.50		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.020	0.090		IEC 60250
Comparative Tracking Index	550	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	225 to 230		°C	
Middle Temperature	230 to 240		°C	
Front Temperature	240 to 250		°C	
Mold Temperature	80.0 to 100		°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China