

VENYL SG300FL BLACK 8229

Polyamide 6

AD majoris

Message:

VENYL SG300FL BLACK 8229 is a special 30 % long glass fibre reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SG300FL BLACK 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

General Information			
Filler / Reinforcement	Long Glass Fiber,30% Filler by Weight		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage	0.40 to 0.80	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12900	MPa	ISO 527-2
Tensile Stress (Break)	220	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	11000	MPa	ISO 178
Flexural Stress	320	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	42	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12

Oxygen Index	23	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	250 to 270	°C	
Middle Temperature	255 to 275	°C	
Front Temperature	260 to 280	°C	
Processing (Melt) Temp	265 to 275	°C	
Mold Temperature	90.0 to 120	°C	
Injection Pressure	95.0 to 120	MPa	
Injection Rate	Fast		
Holding Pressure	60.0 to 80.0	MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0		

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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

