

MAJORIS SG300 - 8229

Polyamide 6

AD majoris

Message:

MAJORIS SG300 - 8229 is a special 30 % long glass fibre reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

MAJORIS SG300 - 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		
Features	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
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	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	
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	DIN 53482
Volume Resistivity	1.0E+14	ohms · cm	DIN 53482
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	
Nozzle Temperature	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

