

MAJORIS G600

Polypropylene

AD majoris

Message:

MAJORIS G600 is a special long glass fibre reinforced polypropylene grade, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, are providing with outstanding mechanical properties.

MAJORIS G600 is available both in natural (MAJORIS G600) and black (MAJORIS G600 - 8229). Other colours can be provided on request.

APPLICATIONS

MAJORIS G600 is intended for injection moulding of highly demanding technical applications. The excellent properties of MAJORIS G600 make it suitable for:

Electrical components, automotive parts, interior, exterior and under the bonnet, structural furniture parts, load bearing, demanding components for various engineering sectors.

G600 can, in many of these applications, substitute other engineering plastics or metal alloys.

General Information	
Filler / Reinforcement	Long glass fiber
Additive	heat stabilizer
Features	Chemical coupling
	Recyclable materials
	Heat resistance, high
	Thermal Stability
Uses	Electrical components
	Furniture
	Parts under the hood of a car
	Application in Automobile Field
	Car interior parts
	Automotive exterior parts
Appearance	Black
	Available colors
	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Molding Shrinkage	0.30 - 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11100	MPa	ISO 527-2/1
Tensile Stress (Break)	185	MPa	ISO 527-2/50

Tensile Strain (Break)	2.2	%	ISO 527-2/50
Flexural Modulus	10100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	50	kJ/m ²	ISO 179/1eA
23°C	45	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	164	°C	ISO 75-2/B
Vicat Softening Temperature	147	°C	ISO 306/B
Injection	Nominal Value	Unit	
Rear Temperature	230 - 250	°C	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	80.0 - 100	°C	
Injection Pressure	30.0 - 60.0	MPa	
Injection Rate	Slow		
Screw Speed	30 - 150	rpm	
Injection Velocity	20 - 30	mm/sec	
Injection instructions			

Holding pressure: 50 to 70% of the injection pressure Back Pressure: as low as possible, 0 - 10% Holding time: as long as practical

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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



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