MAJORIS G500

Polypropylene

AD majoris

Message:

MAJORIS G500 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 G500 is available both in natural (MAJORIS G500) and black (MAJORIS G500 - 8229). Other colours can be provided on request.
APPLICATIONS
MAJORIS G500 is intended for injection moulding of highly demanding technical applications. The excellent properties of MAJORIS G500 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.
G500 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	1.32	g/cm³	ISO 1183
Molding Shrinkage	0.30 - 0.40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9900	MPa	ISO 527-2/1
Tensile Stress (Break)	167	MPa	ISO 527-2/50

Tensile Strain (Break)	2.3	%	ISO 527-2/50
Flexural Modulus	8900	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	44	kJ/m^2	ISO 179/1eA
23°C	40	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 pressureBack Pressure: as low as possible, 0 - 10%Holding time: as long as practical

Recommended distributors for this material

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