MAJORIS G300

Polypropylene

AD majoris

Message:

MAJORIS G300 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 G300 is available both in natural (MAJORIS G300) and black (MAJORIS G300 - 8229). Other colours can be provided on request.
APPLICATIONS
MAJORIS G300 is intended for injection moulding of highly demanding technical applications. The excellent properties of MAJORIS G300 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.
MAJORIS G300 can, in many of these applications, substitute other engineering plastics or metal alloys.

General Information	
UL YellowCard	E251564-100166263
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	1.12	g/cm³	ISO 1183
Molding Shrinkage			
Vertical flow direction	0.55	%	
Flow direction	0.45	%	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7400	MPa	ISO 527-2/1
Tensile Stress (Break)	125	MPa	ISO 527-2/50
Tensile Strain (Break)	2.1	%	ISO 527-2/50
Flexural Modulus	6500	MPa	ISO 178
Flexural Stress [1]	151	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	26	kJ/m^2	ISO 179/1eA
23°C	23	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	57	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	160	°C	ISO 75-2/B
Vicat Softening Temperature	145	°C	ISO 306/B
CLTE - Flow			ASTM D696
-30°C	5.1E-5	cm/cm/°C	ASTM D696
23°C	4.1E-5	cm/cm/°C	ASTM D696
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 to 10%			
NOTE			
1.	2.0 mm/min		

Recommended distributors for this material

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