

MAJORIS G420

Polypropylene

AD majoris

Message:

MAJORIS G420 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.

APPLICATIONS

MAJORIS G420 is intended for injection moulding of highly demanding technical applications.

The excellent properties of MAJORIS G420 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 G420 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		
	Thermal Stability		
Uses	Electrical components		
	Furniture		
	Metal substitution		
	Parts under the hood of a car		
	Car interior parts		
	Automotive exterior parts		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Molding Shrinkage	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8950	MPa	ISO 527-2/1
Tensile Stress (Break)	120	MPa	ISO 527-2/50
Tensile Strain (Break)	2.2	%	ISO 527-2/50
Flexural Modulus ¹	7850	MPa	ISO 178
Flexural Stress ²	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	27	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	65	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	4.2E-5	cm/cm/°C	ASTM D696
23°C	2.9E-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 instructions			
Holding pressure: 50 to 70% of the injection pressureBack pressure: as low as possible, 0 to 10%Holding time: as long as practical			
NOTE			
1.	2.0 mm/min		
2.	50 mm/min		

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