

MAJORIS G200

Polypropylene

AD majoris

Message:

MAJORIS G200 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 G200 is available both in natural (MAJORIS G200) and black (MAJORIS G200 - 8229). Other colours can be provided on request.

APPLICATIONS

MAJORIS G200 is intended for injection moulding of highly demanding technical applications. The excellent properties of MAJORIS G200 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 G200 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	1.04	g/cm ³	ISO 1183
Molding Shrinkage	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2/1
Tensile Stress (Break)	80.0	MPa	ISO 527-2/50

Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus	4600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	13	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	159	°C	ISO 75-2/B
Vicat Softening Temperature	142	°C	ISO 306/B
CLTE - Flow			ASTM D696
-30°C	5.9E-5	cm/cm/°C	ASTM D696
23°C	5.4E-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 pressure Back pressure: as low as possible, 0 to 10%

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