

# MAJORIS G509/B

Polypropylene

AD majoris

## Message:

MAJORIS G509/B 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 G509/B is intended for injection moulding of highly demanding technical applications.

The excellent properties of MAJORIS G509/B 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.

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

MAJORIS G509/B has a specific additive for applications that require a low coefficient of friction.

General Information	
Filler / Reinforcement	Long glass fiber
Additive	heat stabilizer
	Unspecified additive
Features	Low friction coefficient
	Chemical coupling
	Recyclable materials
	Heat resistance, high
	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	1.32	g/cm <sup>3</sup>	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 <sup>2</sup>	ISO 179/1eA
23°C	40	kJ/m <sup>2</sup>	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 instructions			

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

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#### Recommended distributors for this material

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