

MAJORIS GE460 GREY 8432

Polypropylene

AD majoris

Message:

MAJORIS GE460 GREY 8432 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 GE460 GREY 8432 is intended for injection moulding of highly demanding technical applications.

The excellent properties of MAJORIS GE460 GREY 8432 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 GE460 GREY 8432 can, in many of these applications, substitute other engineering plastics or metal alloys.

General Information	
Filler / Reinforcement	Long glass fiber, 40% filler by weight
Additive	heat stabilizer
Features	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
Appearance	Grey
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Molding Shrinkage	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9310	MPa	ISO 527-2/1
Tensile Stress (Break)	104	MPa	ISO 527-2/50
Tensile Strain (Break)	2.7	%	ISO 527-2/50
Flexural Modulus ¹	7510	MPa	ISO 178
Flexural Stress ²	151	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	53	kJ/m ²	ISO 179/1eU
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.	2.0 mm/min		

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