MAJORIS G430

Polypropylene

AD majoris

Message:

MAJORIS G430 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 G430 is intended for injection moulding of highly demanding technical applications.
The excellent properties of MAJORIS G430 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 G430 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 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	1.25	g/cm³	ISO 1183
Molding Shrinkage	0.40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8900	MPa	ISO 527-2/1
Tensile Stress (Break)	111	MPa	ISO 527-2/50
Tensile Strain (Break)	2.2	%	ISO 527-2/50
Flexural Modulus [1]	7750	MPa	ISO 178
Flexural Stress	195	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	26	kJ/m²	ISO 179/1eA
23°C	25	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m²	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	144	°C	ISO 306/B
CLTE - Flow			ASTM D696
-30°C	4.2E-5	cm/cm/°C	ASTM D696
23°C	3.0E-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		

Recommended distributors for this material

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