MAJORIS G309 - 8229

Polypropylene

AD majoris

Message:

MAJORIS G309 - 8229 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.
This product is laser printable.
MAJORIS G309 - 8229 is available only in black.
APPLICATIONS
MAJORIS - BLACK 8229 is intended for injection moulding of highly demanding technical applications.
The excellent properties of MAJORIS G309 - 8229 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 G309 - 8229 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 Laser marking 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	Black
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage	0.50	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	100		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7400	MPa	ISO 527-2/1
Tensile Stress (Break)	125	MPa	ISO 527-2/50
Tensile Strain (Break)	2.1	%	ISO 527-2/50
Flexural Modulus	6500	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	26	kJ/m^2	ISO 179/1eA
23°C	23	kJ/m^2	ISO 179/1eA
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	5.1E-5	cm/cm/°C	ASTM D696
23°C	4.1E-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

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