MAJORIS G310 - 8229

Polypropylene

AD majoris

Message:

MAJORIS G310 - 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.

MAJORIS G310 - 8229 is available both in black (MAJORIS G310 - 8229) and natural (MAJORIS G310). Other colours can be provided on request. APPLICATIONS

MAJORIS G310 - 8229 is intended for injection moulding of highly demanding technical applications.

The excellent properties of MAJORIS G310 - 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 G310 - 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			
	Recyclable materials			
	Thermal Stability			
Uses	Electrical components			
	Furniture			
	Metal substitution			
	Parts under the hood of a car			
	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	1.12	g/cm³	ISO 1183	
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/m²	ISO 179/1eA
23°C	23	kJ/m²	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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