

MAJORIS BG400 - 8229

Polypropylene

AD majoris

Message:

BG400 - 8229 is a 40% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.

The product is available in natural, but other colours can be provided on request.

BG 400 - 8229 has been developed especially for the automotive under the bonnet applications.

BG 400 - 8229 has very high stiffness, high impact strength, good dimensional stability and good creep resistance also at high temperatures.

APPLICATIONS

Product requiring high service temperature and extremely high mechanical strength, such as:

Air filter cases

Lamp housings

Timing belt covers

Fans and shrouds

Technical components

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Super rigidity		
	Good dimensional stability		
	High strength		
	Chemical coupling		
	Impact resistance, high		
	Recyclable materials		
Uses	Good creep resistance		
	Filter		
	Parts under the hood of a car		
	Application in Automobile Field		
Appearance	Shell		
	Available colors		
Forms	Natural color		
	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ISO 1133
Molding Shrinkage	0.20 - 0.50	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	95.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.0	%	ISO 527-2/50

Flexural Modulus ¹	6300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	31	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	149	°C	ISO 75-2/A
Vicat Softening Temperature			
--	165	°C	ISO 306/A
--	137	°C	ISO 306/B
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 270	°C	
Mold Temperature	30.0 - 70.0	°C	
Injection Rate	Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

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