

MAJORIS BG220E - 8229

High Density Polyethylene

AD majoris

Message:

MAJORIS BG220E - 8229 is a 20% glass fibre reinforced polyethylene high density compound intended for injection moulding and extrusion profiles. The product is available in black and natural, but other colours can be provided on request.

APPLICATIONS

MAJORIS BG220E - 8229 is intended for components which require good impact strength, rigidity, dimensional stability.

Suitable applications are:

Electrical tool and appliance components

Miscellaneous automotive technical items

Profile

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight
Features	Good dimensional stability
	High density
	Impact resistance, good
	Recyclable materials
	Medium hardness
Uses	Electrical/Electronic Applications
	Power/other tools
	Home appliance components
	Application in Automobile Field
	Profile
Appearance	Black
	Available colors
	Natural color
Forms	Particle
Processing Method	Profile extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	2.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ISO 527-2/1
Tensile Stress (Yield)	43.0	MPa	ISO 527-2/50
Tensile Strain (Break)	5.0	%	ISO 527-2/50

Flexural Modulus ¹	3150	MPa	ISO 178
Flexural Stress	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	22	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	120	°C	ISO 75-2/B
1.8 MPa, not annealed	100	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Rear Temperature	180 - 200	°C	
Processing (Melt) Temp	190 - 230	°C	
Mold Temperature	30.0 - 50.0	°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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