

MAJORIS AG100E

High Density Polyethylene

AD majoris

Message:

MAJORIS AG100E is a 10% glass fibre reinforced polyethylene high density compound intended for injection moulding and extrusion profiles. The product is available in black (MAJORIS AG100E - 8229) and natural (MAJORIS AG100E) but other colours can be provided on request.

APPLICATIONS

MAJORIS AG100E 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, 10% 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	1.00	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.20	g/10 min	ISO 1133
190°C/21.6 kg	18	g/10 min	ISO 1133
190°C/5.0 kg	0.60	g/10 min	ISO 1133
Molding Shrinkage			

Vertical flow direction: 2.00mm	0.90	%	
Flow direction: 2.00mm	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2/1
Tensile Stress (Yield)	30.0	MPa	ISO 527-2/50
Flexural Modulus ¹	1490	MPa	ISO 178
Flexural Stress	47.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	106	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	200 - 220	°C	
Processing (Melt) Temp	210 - 250	°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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