

# MAJ'ECO DG404BS - 8229

Biodegradable Polymers

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## Message:

MAJ'ECO DG404BS - 8229 is a glass fibre reinforced Biopolymer compound intended for injection moulding.

MAJ'ECO DG404BS - 8229 has been developed especially for demanding applications in various engineering sectors.

MAJ'ECO DG404BS - 8229 has high rigidity, good dimensional stability.

## APPLICATIONS

Electrical appliances

Exterior parts

Technical components

Sports leisure

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Updatable resources		
	Recyclable materials		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Outdoor application		
	Sporting goods		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	11	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8580	MPa	ISO 527-2/1
Tensile Stress (Break)	76.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.6	%	ISO 527-2/50
Flexural Modulus <sup>1</sup>	8130	MPa	ISO 178
Flexural Stress <sup>2</sup>	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	152	°C	ISO 75-2/B

1.8 MPa, not annealed	131	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	170 - 200	°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		
2.	50 mm/min		

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