

# MAJ'ECO GP130 CEL

Biodegradable Polymers

AD majoris

Message:

MAJ'ECO GP130 CEL is a natural fibre reinforced biopolymer compound intended for injection moulding.  
The carbon-biobased content of this compound is above 50%.  
MAJ'ECO GP130 CEL has been developed especially for demanding applications in various engineering sectors.

APPLICATIONS

Product such as:

- Boxes
- Racks
- Technical components

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 50% filler by weight		
Features	Updatable resources		
	Recyclable materials		
Uses	Bracket		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	24	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.86	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1820	MPa	ISO 527-2/1
Tensile Stress (Break)	20.0	MPa	ISO 527-2/50
Tensile Strain (Break)	4.0	%	ISO 527-2/50
Flexural Modulus <sup>1</sup>	1950	MPa	ISO 178
Flexural Stress	39.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	4.0	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	150 - 190	°C	

Mold Temperature	80.0 - 100	°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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#### Recommended distributors for this material

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