

MAJORIS GC163

Polypropylene

AD majoris

Message:

GC163 is a natural, 15% mineral filled polypropylene compound intended for injection moulding.
The product is available in natural (GC163) and black (GC163 - 8229) but other colours can be supplied on request.
The good flowability of GC163 makes it very easy to process even for complicated parts. The material displays excellent gloss and antistatic properties.
GC163 is intended for component, which require very good surface quality, rigidity, very good impact, low shrinkage and high dimensional stability.

APPLICATIONS

Electrical appliances
Household articles
Technical components

General Information			
Filler / Reinforcement	Mineral filler, 15% filler by weight		
Additive	Antistatic property		
Features	Good dimensional stability		
	Highlight		
	Antistatic property		
	Impact resistance, good		
	Recyclable materials		
	Workability, good		
	Good liquidity		
	Low shrinkage		
	Good appearance		
	Excellent appearance		
	Medium hardness		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Household goods		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ISO 1133
Molding Shrinkage	1.3 - 1.6	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	14.0	MPa	ISO 527-2/50
Tensile Strain (Break)	25	%	ISO 527-2/50
Flexural Modulus ¹	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	98.0	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 260	°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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Recommended distributors for this material

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