

MAJORIS FG104X

Polypropylene

AD majoris

Message:

FG104X is a high performance reinforced polypropylene compound intended for injection moulding.
FG104X has been developed especially for demanding applications in various engineering sectors.
FG104X has high rigidity and impact strength, good dimensional stability, very good stiffness and good creep resistancy also at high temperatures.

APPLICATIONS

- Product requiring very high overall mechanical performance such as:
- Electrical tool and appliance components
- Under the bonnet parts
- Miscellaneous technical items

General Information			
Features	Good dimensional stability		
	Rigidity, high		
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	Impact resistance, high		
	Recyclable materials		
	Good creep resistance		
Uses	Electrical/Electronic Applications		
	Power/other tools		
	Home appliance components		
	Parts under the hood of a car		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.998	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3390	MPa	ISO 527-2/1
Tensile Stress (Yield)	70.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.8	%	ISO 527-2/50
Flexural Modulus ¹	3220	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	41	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, not annealed	168	°C	ISO 75-2/B
1.8 MPa, not annealed	155	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 - 260	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Moderate		
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Screw speed: Low to mediumBack pressure: Low to medium			
NOTE			
1.	2.0 mm/min		

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