

MAJORIS DG504X

Polypropylene

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Message:

MAJORIS DG504X is a high performance reinforced polypropylene compound intended for injection moulding.

The product is available in natural, but other colours can be provided on request.

MAJORIS DG504X has been developed especially for demanding applications in various engineering sectors.

MAJORIS DG504X 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		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.59	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2/1
Tensile Stress (Yield)	115	MPa	ISO 527-2/50
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus ¹	11400	MPa	ISO 178

Flexural Stress	174	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.2	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	36	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	170	°C	ISO 75-2/B
1.8 MPa, not annealed	164	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 270	°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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