

MAJORIS DG454X

Polypropylene

AD majoris

Message:

MAJORIS DG454X 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 DG454X has been developed especially for demanding applications in various engineering sectors.

MAJORIS DG454X has high rigidity and good impact strength, good dimensional stability and good creep resistancy also at high temperatures.

APPLICATIONS

Product requiring very high overall mechanical performance such as:

Heater housing

Automotive under the bonnet components

Miscellaneous automotive technical items

Technical components

Can suitably be made from DG 454

General Information			
Features	Good dimensional stability Rigidity, high Impact resistance, good Recyclable materials Good creep resistance		
Uses	Parts under the hood of a car Application in Automobile Field Shell		
Appearance	Available colors Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.30 - 0.60	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	90.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.5	%	ISO 527-2/50
Flexural Modulus	6200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	10	kJ/m ²	ISO 179/1eA

23°C	14	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	135	°C	ISO 75-2/B
1.8 MPa, not annealed	120	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 260	°C	
Mold Temperature	30.0 - 70.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			

Holding pressure: 50 to 70% of the injection pressure

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