

MAJORIS DG304X

Polypropylene

AD majoris

Message:

MAJORIS DG304X 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 DG304X has been developed especially for demanding applications in automotive industry and various engineering sectors.

MAJORIS DG304X has very high rigidity, good dimensional stability and good creep resistancy also at high temperatures.

APPLICATIONS

Product requiring high service temperature and extremely high mechanical strength.

General Information			
Features	Good dimensional stability		
	Rigidity, high		
	High strength		
	Recyclable materials		
	Good creep resistance		
Uses	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage			
Vertical flow direction: 2.00mm	1.0	%	
Flow direction: 2.00mm	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7900	MPa	ISO 527-2/1
Tensile Stress (Yield)	105	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	6700	MPa	ISO 178
Flexural Stress	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	8.0	kJ/m ²	ISO 179/1eA
23°C	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU

-20°C	43	kJ/m ²	ISO 179/1eU
23°C	47	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	152	°C	ISO 75-2/B
1.8 MPa, not annealed	149	°C	ISO 75-2/A
Vicat Softening Temperature	138	°C	ISO 306/B
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	40.0 - 80.0	°C	
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			
Back pressure: as low as possibleScrew speed: Low to medium			
NOTE			
1.	2.0 mm/min		

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