

MAJORIS DE321

Polypropylene

AD majoris

Message:

DE321 is a mineral/elastomer reinforced polypropylene compound intended for injection moulding.

DE321 has been developed especially for the car industry, to be used in interior parts requiring excellent scratch resistance.

The product is available in black (DE321 - 8229) and natural (DE321) but other colours can be provided on request.

DE321 has a very easy flowing and excellent mechanical properties.

APPLICATIONS

Interior panels

Dashboard

Consoles

Door panels and pockets

General Information			
Filler / Reinforcement	Mineral filler		
Additive	Impact modifier		
Features	Impact modification		
	Recyclable materials		
	Good liquidity		
	Scratch resistance		
Uses	Application in Automobile Field		
	Car interior parts		
	Car interior equipment		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	6.0	g/10 min	ISO 1133
230°C/5.0 kg	27	g/10 min	ISO 1133
Molding Shrinkage	0.90 - 1.2	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2
Tensile Stress (Yield)	31.0	MPa	ISO 527-2/50

Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.5	kJ/m ²	ISO 179/1eA
23°C	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	41	kJ/m ²	ISO 179/1eU
23°C	110	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	116	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A
--	77.0	°C	ISO 306/B
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Additional Information			
Scratch Resistance (sand paper test): <1 DI			
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Screw RPM: Slow			
NOTE			
1.	2.0 mm/min		

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