

MAJORIS DT231

Polypropylene

AD majoris

Message:

DT 231 is a 20% mineral filled polypropylene compound intended for injection moulding.

DT 231 is a medium flow rate grade with good process ability.

APPLICATIONS

Under bonnet applications requiring good long-term heat stability, low shrinkage, high dimensional stability and high heat distortion temperature...

Connectors boxes

Air filters

Air ducts

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Recyclable materials		
	Workability, good		
	Medium liquidity		
	Heat resistance, high		
	Thermal Stability		
	Thermal stability, good		
	Low shrinkage		
Uses	Filter		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	80.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/50
Flexural Modulus ¹	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	1.5	kJ/m ²	ISO 179/1eA
23°C	3.5	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	125	°C	ISO 75-2/B
1.8 MPa, not annealed	69.0	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Atomization-100°C/16H	3.0E-4	g	DIN 75201
Emission	21.0	µgC/g	VDA 277
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 - 240	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	5.0 mm/min		

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