

MAJORIS BT231 - 8229

Polypropylene

AD majoris

Message:

BT231 - 8229 is a 20% mineral filled grade intended for injection moulding and blow moulding.

The product is available in natural (BT231) and black (BT231 - 8229) but other colours can be supplied on request.

BT231 - 8229 has been developed especially for the automotive under hood applications requiring very good long-term heat stability.

APPLICATIONS

Products requiring high rigidity, very good long- term heat resistance, high heat distortion temperature, low shrinkage and high dimensional stability such as:

Automotive climate control parts

Heater housings

Air conditioning parts

Air ducts

Fuse and connector boxes

Miscellaneous electrical and technical components

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Rigidity, high		
	Recyclable materials		
	Heat resistance, high		
	Thermal Stability		
	Thermal stability, good		
	Low shrinkage		
Uses	Electrical/Electronic Applications		
	Parts under the hood of a car		
	Shell		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Blow molding		
	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)	2.2	g/10 min	ISO 1133

Molding Shrinkage	1.1	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1
Tensile Stress (Yield)	38.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Flexural Modulus ¹	2700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	53	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	6.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	127	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	156	°C	ISO 306/A
--	105	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
Thermal Stability (150°C)	> 700.0	hr	
Atomization-100°C/16H	2.0E-4	g	DIN 75201
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 250	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 - 230	°C	
Cylinder Zone 3 Temp.	190 - 230	°C	
Cylinder Zone 5 Temp.	190 - 230	°C	
Melt Temperature	180 - 230	°C	
Die Temperature	180 - 230	°C	
NOTE			
1.	2.0 mm/min		

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