

MAJORIS DT431 - 8229

Polypropylene

AD majoris

Message:

DT431 - 8229 is a 40% mineral filled polypropylene compound intended for injection moulding.

The product is available in both black (DT431- 8229) and natural (DT431) but other colours can be provided on request.

DT431 - 8229 has a medium flow rate, very good processability and excellent mechanical properties.

DT431 - 8229 has been developed especially for the automotive under the bonnet application requiring excellent long- term heat stability and electrical industry.

APPLICATIONS

Fuse and connector boxes

Miscellaneous electrical components

Household appliances

Automotive climate control parts

Air conditioning parts

Heater housings

Products requiring high rigidity, high dimensional stability, low shrinkage and good long term heat resistance, high heat distortion temperature can suitably be made from DT431 - 8229.

General Information	
Filler / Reinforcement	Mineral filler, 40% filler by weight
Additive	heat stabilizer
Features	Good dimensional stability
	Rigidity, high
	Recyclable materials
	Workability, good
	Medium liquidity
	Heat resistance, high
	Thermal Stability
	Thermal stability, good
	Low shrinkage
Uses	Electrical/Electronic Applications
	Electrical components
	Electrical appliances
	Parts under the hood of a car
	Shell
Appearance	Black
	Available colors
	Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	6.5	g/10 min	ISO 1133
230°C/5.0 kg	40	g/10 min	ISO 1133
Molding Shrinkage	0.80 - 1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	24.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	2.7	%	ISO 527-2/5
Flexural Modulus ¹	3300	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	1.9	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	33	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	115	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature	103	°C	ISO 306/B
CLTE - Flow	5.5E-5	cm/cm/°C	ISO 11359-2
Thermal Stability (150°C)	> 700.0	hr	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	210 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

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