MAJORIS ET272

Polypropylene

AD majoris

Message:

ET272 is a natural 20 % mineral filled polypropylene compound intended for injection moulding.
ET272 is equipped for long term heat and UV resistance in combination with good antistatic performance.
The product is available in natural (ET272) and black (ET272 - 8229) but other colours can be provided on request.
ET272 has an excellent balance between the impact strength and stiffness as well as good surface quality.
APPLICATIONS
Vacuum cleaner and air-condition components:
Motor housing
Filter cover
Handles
Front covers
Back cover
Top cover
Housing

General Information	
Filler / Reinforcement	Mineral filler, 20% filler by weight
Features	Antistatic property Good UV resistance Recyclable materials Excellent appearance
Uses	Handle Home appliance components Shell
Appearance	Black Available colors Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Flexural Modulus [1]	2500	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.5	kJ/m²	ISO 179/1eA
23°C	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	25	kJ/m²	ISO 179/1eU
23°C	52	kJ/m²	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	68.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A
--	75.0	°C	ISO 306/B
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		

Recommended distributors for this material

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