MAJORIS BM421

Polypropylene

AD majoris

Message:

BM421 is a 40% reinforced polypropylene compound intended for injection moulding.
APPLICATIONS
Products requiring high rigidity, long term heat resistance, low shrinkage, high dimensional stability and long term stability UV can suitably be made from BM421.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability Rigidity, high Good UV resistance Recyclable materials Thermal Stability Low shrinkage		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.27	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.5	g/10 min	ISO 1133
Molding Shrinkage	0.50 - 0.80	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	80		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2/5
Yield	42.0	MPa	ISO 527-2/5
Fracture	39.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	1.3	%	ISO 527-2/5
Fracture	1.5	%	ISO 527-2/5
Flexural Modulus [1]	7100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	2.5	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	104	°C	ISO 75-2/A
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	220 - 270	°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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