MAJORIS GFR300

Polypropylene

AD majoris

Message:

GFR300 is a 30% chemically coupled glass fibre reinforced polypropylene compound, halogen flame retardant UL 94 V0 (RoHs conform), intended for injection moulding.
The product is available in natural (GFR300) but other colours can be supplied on request.
GFR300 has a high flow rate and good dimensional stability.
APPLICATIONS
GFR300 is intended for injection moulding for automotive applications and electrical components.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Flame retardancy		
Features	Good dimensional stability Chemical coupling Recyclable materials High liquidity Halogenated Flame retardancy		
Uses	Electrical components Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	Available colors Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.43	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.50 - 0.60	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6900	MPa	ISO 527-2/1
Tensile Stress (Yield)	100	MPa	ISO 527-2/50
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus [1]	6750	MPa	ISO 178
Flexural Stress [2]	155	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			ISO 179
-20°C	4.0	kJ/m²	ISO 179
23°C	10	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	159	°C	ISO 75-2/B
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	220 - 250	°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		
2.	50 mm/min		

Recommended distributors for this material

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