

MAJORIS GFR320

Polypropylene

AD majoris

Message:

GFR320 is a 30% chemically coupled glass fibre reinforced polypropylene compound, halogen flame retardant UL 94 V0 with high LOI, intended for injection moulding. The product is available in natural (GFR320) but other colours can be supplied on request.

GFR320 has a high flow rate and good dimensional stability.

APPLICATIONS

GFR320 is intended for the injection moulding for the 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		
Uses	Flame retardancy		
	Electrical components		
Appearance	Application in Automobile Field		
	Electrical components		
Forms	Available colors		
	Natural color		
Processing Method	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.50 - 0.60	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7700	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.0	%	ISO 527-2/50
Flexural Modulus ¹	8000	MPa	ISO 178
Flexural Stress ²	138	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	37	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	147	°C	ISO 75-2/A
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	375	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		UL 94
3.20 mm	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	IEC 60695-2-12
2.00 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	29	%	ISO 4589-2
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		

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