

MAJORIS DFR110

Polypropylene

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Message:

DFR110 is a halogen free flame retardant compound with 10 % glass fibre reinforced UL 94 V0 intended for injection moulding. The product is available in natural (DFR110) but other colours can be supplied on request.

DFR110 produces very low level of toxicity and low smoke density in the case of a fire.

APPLICATIONS

DFR110 has been developed especially for very demanding applications in automotive industry and electrical parts (conform 2002/95/EC, RoHS directive).

Sockets

Electrical parts

Miscellaneous technical components

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	Flame retardancy		
Features	Low smoke		
	Low toxicity		
	Recyclable materials		
	Halogen-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	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	1.09	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.90 - 1.1	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Flexural Modulus ¹	2900	MPa	ISO 178
Flexural Stress ²	70.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	28	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	155	°C	ISO 75-2/B
1.8 MPa, not annealed	125	°C	ISO 75-2/A
Ball Pressure Test (135°C)	Pass		NF C 61-303
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-2		UL 94
1.60 mm	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	775	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 - 240	°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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