

MAJORIS DFR111R

Polypropylene

AD majoris

Message:

DFR111R is a PP flame retardant compound with UL 94 V2 classification, intended for injection moulding. The product is available in natural (DFR111R) but other colours can be supplied on request.

DFR111R produces very low level of toxicity and low smoke density in the case of a fire. DFR111R is halogen free following norm DIN VDE 0472 Part 815.

APPLICATIONS

DFR111R is intended for the injection moulding of electrical component such as:

Sockets

Junction boxes

Switches and connector housings

General Information			
Additive	Flame retardancy		
Features	Low smoke		
	Low toxicity		
	Recyclable materials		
	Halogen-free		
	Flame retardancy		
Uses	Electrical components		
	Electrical housing		
Agency Ratings	DIN VDE 0472 part 815		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage	1.4	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 200	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
Flammability	Nominal Value	Unit	Test Method
0.45 MPa, not annealed	112	°C	ISO 75-2/B
1.8 MPa, not annealed	68.0	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	775	°C	IEC 60695-2-13
2.00 mm	775	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	190 - 230	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			

Holding pressure: 50 to 70% of the injection pressure

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