

MAJORIS DFR218

Polypropylene

AD majoris

Message:

DFR218 is a halogen flame retardant compound with UL 94 V0 / 5VA, intended for injection moulding. The product is available in natural (DFR218) but other colours can be supplied on request. The product is heat stability, contains metal deactivator.

APPLICATIONS

DFR218 is intended for the injection moulding of electrical component.

DFR218 specifically designed to fulfil these norms such as:

IEC 60335-1

2002/95/EC (ROHS)

General Information			
Additive	Metal deactivator		
	heat stabilizer		
	Flame retardancy		
Features	Recyclable materials		
	Halogenated		
	Thermal Stability		
	Flame retardancy		
Uses	Electrical components		
Agency Ratings	IEC 60335-1		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.90 - 1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield	24.0	MPa	ISO 527-2/50
Fracture	26.0	MPa	ISO 527-2/50
Tensile Strain (Break)	7.0	%	ISO 527-2/50
Flexural Modulus ¹	2700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-30°C	1.5	kJ/m ²	ISO 179
23°C	2.0	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	2.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	131	°C	ISO 75-2/B
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		UL 94
3.20 mm	V-0		UL 94
2.40 mm	5VA		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	28	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	210 - 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		

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