

MAJORIS DFR918

Polypropylene

AD majoris

Message:

DFR918 is a halogen free flame retardant compound UL 94 VO, intended for injection moulding. The product is available in natural but other colours can be provided on request

DFR918 is especially designed for technical parts.

In addition to have good flame retardant properties, this product has an extremely low level of toxicity in case of fire.

DFR918 is mainly intended for the injection moulding of electrical components.

General Information			
Additive	Flame retardancy		
Features	Low toxicity		
	Recyclable materials		
	Halogen-free		
	Flame retardancy		
Uses	Electrical components		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	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)	1.6 - 1.8	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2
Tensile Stress (Break)	27.0	MPa	ISO 527-2
Flexural Modulus ¹	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	124	°C	ISO 75-2/B
1.8 MPa, not annealed	72.0	°C	ISO 75-2/A
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 (2.00 mm)	960	°C IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	775	°C IEC 60695-2-13
Injection	Nominal Value	Unit
Processing (Melt) Temp	200 - 220	°C
Mold Temperature	50.0 - 60.0	°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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