

MAJORIS DFR 907

Polypropylene

AD majoris

Message:

DFR 907 is a halogen free flame retardant compound UL 94 VO (with Yellow card) , intended for injection moulding. The product is available in natural but other colours can be provided on request.

DFR 907 is especially designed for technical parts. In addition to having good flame retardant properties this product has an extremely low level of toxicity in case of fire.

DFR 907 is mainly intended for the injection moulding of electrical components.

General Information			
Features	Low toxicity		
	Halogen-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.5 - 2.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
-15°C, injection molding	5100	MPa	ISO 527-2
0°C, injection molding	3700	MPa	ISO 527-2
23°C, injection molding	2800	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, -15°C, injection molding	43.0	MPa	ISO 527-2
Yield, 0°C, injection molding	36.0	MPa	ISO 527-2
Yield, 23°C, injection molding	26.0	MPa	ISO 527-2
Fracture, -15°C, injection molding	40.0	MPa	ISO 527-2
Fracture, 0°C, injection molding	32.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, -15°C, injection molding	3.6	%	ISO 527-2
Yield, 0°C, injection molding	3.4	%	ISO 527-2
Yield, 23°C, injection molding	2.7	%	ISO 527-2
Fracture, -15°C, injection molding	5.0	%	ISO 527-2

Fracture, 0°C, injection molding	9.0	%	ISO 527-2
Fracture, 23°C, injection molding	8.0	%	ISO 527-2
Flexural Modulus ¹ (23°C, Injection Molded)	2400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180
-15°C	2.0	kJ/m ²	ISO 180
0°C	2.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	99.0	°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
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	775	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 220	°C	
Mold Temperature	50.0 - 60.0	°C	
Injection Rate	Moderate		
Injection instructions			
Hold-on Pressure: 50 - 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

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