MAJORIS DFR912

Polypropylene

AD majoris

Message:

DFR 912 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
DFR 912 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.
END USE
DFR 912 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	1.01	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	1.5 - 2.0	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2
-15°C	5100	MPa	ISO 527-2
0°C	3700	MPa	ISO 527-2
23°C	2800	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, -15°C	43.0	MPa	ISO 527-2
Yield, 0°C	36.0	MPa	ISO 527-2
Yield, 23°C	26.0	MPa	ISO 527-2
Fracture, -15°C	40.0	MPa	ISO 527-2
Fracture, 0°C	32.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, -15°C	3.6	%	ISO 527-2

Yield, 0°C	3.4	%	ISO 527-2
Yield, 23°C	2.7	%	ISO 527-2
Fracture, -15°C	5.0	%	ISO 527-2
Fracture, 0°C	9.0	%	ISO 527-2
Fracture, 23°C	8.0	%	ISO 527-2
Flexural Modulus [1]	2400	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)	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			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

Recommended distributors for this material

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