

MAJORIS HFR200

Polypropylene

AD majoris

Message:

HFR200 is a halogen flame retardant compound with UL 94 V0 classification, intended for injection moulding. It has high flow rate and very good process ability.

The product is available in natural (HFR200) but other colours can be supplied on request.

APPLICATIONS

HFR200 is intended for the injection moulding of electrical component.

General Information			
Additive	Flame retardancy		
Features	Recyclable materials		
	Workability, good		
	High liquidity		
	Halogenated		
	Flame retardancy		
Uses	Electrical components		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ISO 1133
Molding Shrinkage	0.90 - 1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield	30.0	MPa	ISO 527-2/50
--	29.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	2.0	%	ISO 527-2/50
Fracture	6.0	%	ISO 527-2/50
Flexural Modulus - 1% Secant	2780	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	1.3	kJ/m ²	ISO 179
23°C	2.1	kJ/m ²	ISO 179
Notched Izod Impact			ISO 180

-30°C	1.9	kJ/m ²	ISO 180
23°C	2.1	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	127	°C	ISO 75-2/B
1.8 MPa, not annealed	71.0	°C	ISO 75-2/A
Vicat Softening Temperature	142	°C	ISO 306/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
Oxygen Index	28	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	210 - 240	°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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