

MAJORIS DFR160

Polypropylene Copolymer

AD majoris

Message:

DFR160 is a low halogen flame retardant compound UL 94 V2, intended for injection moulding. The product is available in natural (DFR160) but other colours can be provided on request

DFR160 produce very low level of toxicity and low smoke density in the case of a fire. Provides an excellent balance of high impact strength and rigidity. DFR160 is especially designed for electrical applications.

General Information			
Additive	Flame retardancy		
Features	Low Halogen Content		
	Low smoke		
	Low toxicity		
	Rigidity, high		
	Copolymer		
	Impact resistance, high		
	Recyclable materials		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.978	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield	25.0	MPa	ISO 527-2/50
Fracture	7.00	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	9.0	%	ISO 527-2/50
Fracture	200	%	ISO 527-2/50
Flexural Modulus - 1% Secant	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	ISO 179/1eA
23°C	14	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-30°C	3.0	kJ/m ²	ISO 180/1A
23°C	14	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	87.0	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	°C	ISO 75-2/A
Vicat Softening Temperature	144	°C	ISO 306/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
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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