

MAJORIS FFR067 - 5168

Polypropylene

AD majoris

Message:

FFR067 - 5168 is part of a new material family with low halogen no blooming flame retardant, high impact strength, high gloss and antistatic as well as an excellent UV-resistance and very low war page behaviour. Intended for injection moulding. The product is available in natural (FFR067) but other colours can be provided on request.

APPLICATIONS

FFR067 - 5168 is recommended for indoor or outdoor electrical and lighting applications like plugs, sockets, connectors, capacitor housings, small junction boxes or lamp covers; where chemical resistance, impact and flammability behaviours are required.

General Information			
Additive	Antistatic		
	Flame Retardant		
Features	Antistatic		
	Flame Retardant		
	Good Chemical Resistance		
	Good UV Resistance		
	High Gloss		
	High Impact Resistance		
	Low Halogen Content		
	Low Warpage		
	Non-Blooming		
	Recyclable Material		
Uses	Connectors		
	Electrical Housing		
	Electrical/Electronic Applications		
	Lighting Applications		
	Outdoor Applications		
	Plugs		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.965	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ISO 1133

Molding Shrinkage			
Across Flow	1.2	%	
Flow : 2.00 mm	1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1250	MPa	ISO 527-2
Tensile Stress			
Yield	22.0	MPa	ISO 527-2/50
Break	10.0	MPa	ISO 527-2
Tensile Strain			
Yield	7.0	%	ISO 527-2/50
Break	90	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	85	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	88.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	148	°C	ISO 306/A
--	75.0	°C	ISO 306/B
Ball Pressure Test (125°C)	Pass		IEC 60335-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.8E+15	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Electric Strength	41	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.25		
1 kHz	2.25		
100 kHz	2.24		
Dissipation Factor			IEC 60250
50 Hz	1.5E-3		
1 kHz	1.5E-3		
100 kHz	2.0E-3		
Comparative Tracking Index			IEC 60112
--	> 600	V	
Solution B	> 600	V	
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm, All)	V-2		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.500 mm	850	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature (1.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	25	%	ISO 4589-2
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 200	°C	
Mold Temperature	20.0 to 50.0	°C	

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