

MAJORIS EFR127

Polypropylene
AD majoris

Message:

EFR127 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 (EFR127) but other colours can be provided on request.

APPLICATIONS

EFR127 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 Fixtures		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.995	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ISO 1133
Spiral Flow ¹	99.0	cm	
Molding Shrinkage			

Across Flow	1.3	%	
Flow : 2.00 mm	1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2
Tensile Stress			
Yield	26.0	MPa	ISO 527-2/50
Break	17.0	MPa	ISO 527-2
Tensile Strain			
Yield	5.0	%	ISO 527-2/50
Break	57	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	38	kJ/m ²	
23°C	100	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	92.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	153	°C	ISO 306/A
--	80.0	°C	ISO 306/B
Ball Pressure Test (125°C)	Pass		IEC 60335-1
RTI Elec	110	°C	UL 746
RTI Imp	115	°C	UL 746
RTI Str	115	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+15	ohms	IEC 60093
Volume Resistivity	1.4E+16	ohms · cm	IEC 60093
Electric Strength	42	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.35		
1 kHz	2.31		
100 kHz	2.32		
Dissipation Factor			IEC 60250
50 Hz	1.1E-3		
1 kHz	1.0E-3		
100 kHz	2.6E-3		
Arc Resistance (3.00 mm)	PLC 5		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 0		UL 746

Comparative Tracking Index			IEC 60112
--	> 600	V	
Solution B	> 600	V	
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR)			UL 746
1.50 mm	PLC 0		
3.00 mm	PLC 0		
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		
3.00 mm	PLC 2		
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	
1.00 mm	850	°C	
3.00 mm	960	°C	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 200	°C	
Mold Temperature	20.0 to 50.0	°C	
NOTE			
1.	Melt Temperature: 200°C		

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