

MAJORIS FFR037 - 1298

Polypropylene

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Message:

FFR037 - 1298 is part of a new material family with low halogen no blooming flame retardant (with Yellow card), RoHs conform, 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 (FFR037) but other colours can be provided on request.

APPLICATIONS

FFR037 - 1298 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			
UL YellowCard	E251564-566373		
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		
	Outdoor Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm³	ISO 1183

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ISO 1133
Spiral Flow ¹	102	cm	
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow : 2.00 mm	1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress			
Yield	28.0	MPa	ISO 527-2/50
Break	12.0	MPa	ISO 527-2
Tensile Strain			
Yield	6.0	%	ISO 527-2/50
Break	80	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.2	kJ/m ²	
23°C	5.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	71	kJ/m ²	
23°C	190	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	94.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	154	°C	ISO 306/A
--	79.0	°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	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		
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	
Needle Flame Test (1.00 mm)	Pass		IEC 60695-11-5
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	
2.00 mm	960	°C	
3.00 mm	960	°C	
Oxygen Index	24	%	ISO 4589-2
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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