

Iupilon™ EFR2151HU

Mitsubishi Engineering-Plastics Corp - Polycarbonate

General Information

Product Description

Flame Retardant, Non Br & Non P, Opaque, UV stabilized

General

Additive	• Flame Retardant	• UV Stabilizer	
Features	• Bromine Free • Flame Retardant	• Good Weather Resistance • Light Stabilized	• Low (to None) Phosphorus Content • UV Stabilized
Uses	• Electrical/Electronic Applications	• General Purpose	
Appearance	• Opaque		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	15	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	14	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.70	%	
Flow	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-1/1
Tensile Stress (Yield)	62.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.5	%	
Break	120	%	
Flexural Modulus ²	2500	MPa	ISO 178
Flexural Stress ²	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	65	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	126	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	6.5E-5	cm/cm/°C	
Transverse	6.6E-5	cm/cm/°C	



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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	31	kV/mm	
3.00 mm	18	kV/mm	
Dielectric Constant			IEC 60250
1 MHz	3.10		
100 MHz	3.10		
Dissipation Factor			IEC 60250
1 MHz	9.0E-3		
100 MHz	6.0E-4		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	120	°C
Drying Time - Hot Air Dryer	4.0 to 8.0	hr
Rear Temperature	270 to 300	°C
Middle Temperature	270 to 300	°C
Front Temperature	270 to 300	°C
Nozzle Temperature	270 to 300	°C
Mold Temperature	70 to 100	°C

