Iupilon® FPR3500

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® FPR3500 is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, or North America for injection molding.
Important attributes of Iupilon® FPR3500 are:
Flame Rated
Flame Retardant
High Flow

General Information			
UL YellowCard	E41179-231859		
Additive	Flame Retardant		
Features	Flame Retardant High Flow		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.19	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	17.0	cm³/10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.30 to 0.50	%	
Flow : 3.20 mm	0.30 to 0.50	%	
Water Absorption (Saturation, 23°C)	0.24	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield)	63.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.4	%	ISO 527-2
Nominal Tensile Strain at Break	81	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress	98.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	50	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	107	°C	ISO 75-2/B
1.8 MPa, Unannealed	97.0	°C	ISO 75-2/A

CLTE			ISO 11359-2
Flow	6.6E-5	cm/cm/°C	
Transverse	6.7E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	4.0E+15	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	31	kV/mm	
3.00 mm	18	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	3.4E-3		
1 MHz	7.1E-3		
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.380 mm	V-2		
0.750 mm	V-0		
2.00 mm	5VB		
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	230 to 280	°C	
Middle Temperature	240 to 290	°C	
Front Temperature	250 to 300	°C	
Nozzle Temperature	250 to 300	°C	
Mold Temperature	60.0 to 90.0	°C	
Injection Pressure	50.0 to 200	MPa	
Screw Speed	50 to 150	rpm	

Recommended distributors for this material

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