

Iupilon® EFR3000

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® EFR3000 is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® EFR3000 are:

Flame Rated

Flame Retardant

Halogen Free

General Information			
UL YellowCard	E41179-231838		
Additive	Flame Retardant		
Features	Bromine Free		
	Flame Retardant		
	Low (to None) Phosphorus Content		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	21.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.50 to 0.70	%	
Flow : 3.20 mm	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.24	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield)	61.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.7	%	ISO 527-2
Nominal Tensile Strain at Break	67	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	92.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	50	kJ/m ²	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	137	°C	ISO 75-2/B

1.8 MPa, Unannealed	125	°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	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	
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	6.0E-4		
1 MHz	9.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.00 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	250 to 280	°C	
Middle Temperature	260 to 290	°C	
Front Temperature	270 to 300	°C	
Nozzle Temperature	270 to 300	°C	
Mold Temperature	70.0 to 100	°C	
Injection Pressure	50.0 to 150	MPa	
Screw Speed	50 to 100	rpm	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT