

Iupilon® CGH2010KR

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® CGH2010KR is a Polycarbonate (PC) material filled with 20% carbon fiber and 10% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupilon® CGH2010KR are:

Flame Rated

High Flow

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
	Glass Fiber,10% Filler by Weight		
Features	High Flow		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	4.3	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	3.50	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.15 to 0.35	%	
Flow : 3.20 mm	0.020 to 0.15	%	
Water Absorption (Saturation, 23°C)	0.090	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17300	MPa	ISO 527-2
Tensile Stress (Break)	163	MPa	ISO 527-2
Tensile Strain (Break)	1.3	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	148	°C	ISO 75-2/B
1.8 MPa, Unannealed	143	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.1E-5	cm/cm/°C	
Transverse	5.3E-5	cm/cm/°C	

Flammability	Nominal Value	Test Method
Flame Rating (0.400 mm)	HB	UL 94

Injection	Nominal Value	Unit
Rear Temperature	270 to 290	°C
Middle Temperature	280 to 300	°C
Front Temperature	290 to 310	°C
Nozzle Temperature	290 to 310	°C
Mold Temperature	80.0 to 120	°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

