

Witcom PC 2C-FR-MR

Polycarbonate

Witcom Engineering Plastics B.V.

Message:

Witcom PC 2C-FR-MR is a polycarbonate (PC) product that contains 10% carbon fiber reinforcement. It can be processed by injection molding and is available in Europe.

Features include:

- flame retardant/rated flame
- Flame Retardant
- Conductivity
- mold release agent
- excellent release agent

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Additive	demoulding		
	Flame retardancy		
Features	Conductivity		
	Good demoulding performance		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.10 - 0.30	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 120	MPa	ISO 527-2
Tensile Strain (Break)	2.0 - 3.0	%	ISO 527-2
Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	7.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	140	°C	ISO 75-2/A
CLTE - Flow	2.4E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+3 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		ISO 1210
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	280 - 320	°C	
Mold Temperature	60.0 - 100	°C	
Injection Rate	Fast		
Back Pressure	0.00 - 1.00	MPa	
Injection instructions			

Screw speed: 0.1 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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

