

Witcom PC 3C-EM-MR Black

Polycarbonate

Witcom Engineering Plastics B.V.

Message:

Witcom PC 3C-EM-MR Black is a polycarbonate (PC) product that contains a 15% carbon fiber reinforced material. It can be processed by injection molding and is available in Europe.

- Features include:
- flame retardant/rated flame
 - Conductivity
 - Good processability
 - mold release agent
 - excellent release agent

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 15% filler by weight		
Additive	demoulding		
Features	Conductivity		
	Good formability		
	Good demoulding performance		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	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)	< 140	MPa	ISO 527-2
Tensile Strain (Break)	2.0 - 4.0	%	ISO 527-2
Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	9.5	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)	135	°C	ISO 75-2/A
CLTE - Flow	2.2E-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+2 - 1.0E+4	ohms	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
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	80.0 - 120	°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

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