

XANTAR® C CM 546

Polycarbonate + ABS

Mitsubishi Engineering-Plastics Corp

Message:

20% Glass Reinforced

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.30	%	
Flow	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	55.0	MPa	
Break	50.0	MPa	
Flexural Modulus	5500	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/4A
-20°C	10	kJ/m ²	
23°C	20	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
Vicat Softening Temperature	131	°C	ISO 306/B50
CLTE - Flow	4.0E-5	cm/cm/°C	ISO 11359-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Relative Permittivity (1 MHz)	3.00		IEC 60250
Comparative Tracking Index (CTI)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index (3.00 mm)	750	°C	IEC 60695-2-12
Oxygen Index	23	%	ISO 4589-2

Fill Analysis	Nominal Value	Unit
Thermal Conductivity of Melt	0.23	W/m/K

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