

# XANTAR® C MC 3650

Polycarbonate + ABS

Mitsubishi Engineering-Plastics Corp

Message:

Vicat 110°C, Improved Impact

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	27.0	cm <sup>3</sup> /10min	ISO 1133
shrinkage-Flow	0.60	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress	66.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	40	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	50	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/4A
-40°C	20	kJ/m <sup>2</sup>	ISO 180/4A
-20°C	40	kJ/m <sup>2</sup>	ISO 180/4A
23°C	55	kJ/m <sup>2</sup>	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	93.0	°C	ISO 75-2/A
Vicat Softening Temperature	111	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5	cm/cm/°C	ISO 11359-2

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