

XANTAR® C RC 3012

Polycarbonate + ABS
Mitsubishi Engineering-Plastics Corp

Message:
General purpose, Vicat 120°C

General Information			
Features	General Purpose		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	18.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.60	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2250	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	20	kJ/m ²	
23°C	40	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/4A
-40°C	35	kJ/m ²	
-20°C	55	kJ/m ²	
23°C	65	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	109	°C	ISO 75-2/A
Vicat Softening Temperature	124	°C	ISO 306/B50
CLTE			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	

Transverse	7.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.90		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	22	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Thermal Conductivity of Melt	0.23	W/m/K	

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