

XANTAR® MX 1020

Polycarbonate
Mitsubishi Engineering-Plastics Corp

Message:
Stress Crack Modified

General Information			
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/1.2 kg)	6.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.60	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Yield)	52.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/4A
-20°C	60	kJ/m ²	
23°C	70	kJ/m ²	
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-30°C	11.0	J	
23°C	16.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	129	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE - Flow	6.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Electric Strength	18	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 2		UL 746

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