

XANTAR® G2F 23 R

Polycarbonate
Mitsubishi Engineering-Plastics Corp

Message:
10% Glass Reinforced, Flame Retardant

General Information			
UL YellowCard	E340159-100746632	E340159-101933623	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	6.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.55	%	
Flow	0.20	%	
Water Absorption (Saturation, 23°C)	0.31	%	ISO 62
Limiting Viscosity Number	50.0	cm³/g	ISO 1628-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	15	%	ISO 527-2
Flexural Modulus	3400	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	25	kJ/m²	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	145	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE - Flow	4.5E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity ¹	0.26	W/m/K	
RTI Elec			UL 746

1.50 mm	130	°C	
3.00 mm	130	°C	
RTI Imp			UL 746
1.50 mm	125	°C	
3.00 mm	130	°C	
RTI Str			UL 746
1.50 mm	125	°C	
3.00 mm	130	°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	29	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	9.0E-4		
1 MHz	9.0E-3		
Comparative Tracking Index (CTI)	PLC 3		UL 746
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	V-0		
	V-0		
3.00 mm	5VA		
2.20 mm	5VB		
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	825	°C	
3.00 mm	850	°C	
Oxygen Index	35	%	ISO 4589-2
NOTE			
1.	Of melt		

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