

XANTAR® G4F 23 R

Polycarbonate
Mitsubishi Engineering-Plastics Corp

Message:
20% Glass Reinforced, Flame Retardant

General Information			
UL YellowCard	E340159-100749191		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	6.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.50	%	
Flow	0.20	%	
Water Absorption (Saturation, 23°C)	0.29	%	ISO 62
Limiting Viscosity Number	48.0	cm ³ /g	ISO 1628-4
Thermal Conductivity of Melt	0.29	W/m/K	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	91		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress (Break)	95.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	5500	MPa	ISO 178
Flexural Stress	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Notched Izod Impact Strength			ISO 180/4A
-30°C	5.0	kJ/m ²	
23°C	10	kJ/m ²	
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-30°C	4.00	J	

23°C	6.00	J	
Multi-Axial Instrumented Impact Peak Force			ISO 6603-2
-30°C	900	N	
23°C	900	N	
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	3.0E-5	cm/cm/°C	ISO 11359-2
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	3.25		
1 MHz	3.20		
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
1.20 mm	V-0		
1.50 mm	V-0		
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	850	°C	
3.00 mm	875	°C	
Oxygen Index	35	%	ISO 4589-2

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

