

XANTAR® XRM 1006

Polycarbonate
Mitsubishi Engineering-Plastics Corp

Message:
Impact Modified, Flame Retardant, Good Flow

General Information			
Additive	Flame Retardant		
	Impact Modifier		
Features	Flame Retardant		
	Good Flow		
	Impact Modified		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	6.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.80	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.35	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2300	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	60	kJ/m ²	
23°C	70	kJ/m ²	
Notched Izod Impact Strength			ISO 180/4A
-40°C	30	kJ/m ²	
-30°C	45	kJ/m ²	
-20°C	60	kJ/m ²	
23°C	70	kJ/m ²	
Multi-Axial Instrumented Impact Energy			ISO 6603-2

-30°C	60.0	J	
23°C	60.0	J	
Multi-Axial Instrumented Impact Peak Force			ISO 6603-2
-30°C	6000	N	
23°C	5500	N	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	130	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/B50
Ball Pressure Test (140°C)	Pass		IEC 60695-10-2
CLTE - Flow	6.5E-5	cm/cm/°C	ISO 11359-2
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	2.90		
1 MHz	2.80		
Dissipation Factor			IEC 60250
100 Hz	6.6E-4		
1 MHz	9.2E-3		
Comparative Tracking Index (CTI)	PLC 2		UL 746
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
	V-0		
2.50 mm	5VB		
1.50 mm	V-1		
Glow Wire Flammability Index			IEC 60695-2-12
2.00 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
2.00 mm	850	°C	
3.00 mm	875	°C	
Fill Analysis	Nominal Value	Unit	
Thermal Conductivity of Melt	0.26	W/m/K	

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