

XANTAR® XRM 5010

Polycarbonate
Mitsubishi Engineering-Plastics Corp

Message:
PC-GF9 FR(76)
9% Glass Reinforced. Flame Retardant

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
Features	Flame Retardant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.25	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	0.55	%	
Flow	0.20	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.31	%	ISO 62
Limiting Viscosity Number	45.0	cm ³ /g	ISO 1628-4
Thermal Conductivity of Melt	0.26	W/m/K	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	15	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Film Puncture Energy			ISO 6603-2
-- 1	30.0	J	
-- 2	40.0	J	
Film Puncture Force			ISO 6603-2
-- 3	4400	N	
-- 4	4200	N	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	15	kJ/m ²	
23°C	25	kJ/m ²	
Notched Izod Impact Strength			ISO 180/4A
-30°C	14	kJ/m ²	
23°C	25	kJ/m ²	
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
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (3.00 mm)	V-0		IEC 60695-11-10, -20
Glow Wire Flammability Index (3.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	35	%	ISO 4589-2
NOTE			
1.	-30°C		
2.	23°C		
3.	-30°C		
4.	23°C		

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