

General Information

Product Description

Wear Resistance Improved, Carbon Fiber Reinforced (10%), Fluorine resin (20%)

General

Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Additive	• PTFE Lubricant: 20%
Features	• Abrasion Resistant • High Rigidity • High Stiffness • Wear Resistant
Uses	• General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	1.7	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	1.3	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.20 to 0.40	%	
Flow	0.050 to 0.20	%	
Water Absorption (Saturation, 23°C)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-1/1
Tensile Stress (Break)	105	MPa	ISO 527-2/5
Tensile Strain (Break)	2.1	%	ISO 527-2/5
Flexural Modulus ²	9400	MPa	ISO 178
Flexural Stress ²	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	150	°C	ISO 75-2/B
1.8 MPa, Unannealed	145	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.4E-5	cm/cm/°C	
Transverse	6.5E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.40 mm)	HB		UL 94



Mitsubishi Engineering-Plastics Corp - Polycarbonate

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	120	°C
Drying Time - Hot Air Dryer	4.0 to 8.0	hr
Rear Temperature	290 to 310	°C
Middle Temperature	290 to 310	°C
Front Temperature	290 to 310	°C
Nozzle Temperature	290 to 310	°C
Mold Temperature	80 to 120	°C

