Iupilon GSH2030R2

PC-GF30 — Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**4.8**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Melt flow index, MFI	**5.7**	g/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.3**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**8900**	MPa	ISO 527
Stress at break	**120**	MPa	ISO 527
Strain at break	**2.5**	%	ISO 527
Flexural modulus, 23°C	**8500**	MPa	ISO 178
Flexural strength	**180**	MPa	ISO 178
Charpy impact strength, +23°C	**50**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**15**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**144**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**148**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**18**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**63**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.4**	mm	-
Yellow Card available	**yes**	-	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**3.5**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**84**	E-4	IEC 62631-2-1
Volume resistivity	**2E14**	Ohm*m	IEC 62631-3-1
Surface resistivity	**2E15**	Ohm	IEC 62631-3-2
Electric strength	**32**	kV/mm	IEC 60243-1
Comparative tracking index	**137**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**0.09**	%	Sim. to ISO 62
Density	**1430**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4 - 8**	h	-
Mold temperature	**80 - 120**	°C	-
Zone 1	**290 - 310**	°C	-
Zone 2	**290 - 310**	°C	-
Zone 3	**290 - 310**	°C	-
Nozzle temperature	**290 - 310**	°C	-

Characteristics

Processing
Injection Molding

Applications
General Purpose

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa