

Iupilon EHR3100

PC

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Melt flow index, MFI	24	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2700	MPa	ISO 527
Yield stress	53	MPa	ISO 527
Yield strain	5	%	ISO 527
Strain at break	55	%	ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	89	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	37	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	135	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	62	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	63	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	3E14	Ohm*m	IEC 62631-3-1
Surface resistivity	6E15	Ohm	IEC 62631-3-2
Comparative tracking index	325	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	0.2	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4 - 8	h	-
Mold temperature	70 - 100	°C	-
Zone 1	260 - 280	°C	-
Zone 2	260 - 280	°C	-
Zone 3	260 - 280	°C	-
Nozzle temperature	260 - 280	°C	-

Characteristics**Processing**

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical

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Special Characteristics

Flame retardant, Phosphorus-free

Regional Availability

North America, Europe, Asia Pacific

Features

Light Reflecting