

Iupilon RS3001R

PC

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Melt flow index, MFI	15	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	6.7	%	ISO 527
Strain at break	120	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	63	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	126	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	66	E-6/K	ISO 11359-1/-2

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

Other properties	Value	Unit	Test Standard
Water absorption	0.24	%	Sim. to ISO 62
Density	1210	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	270 - 300	°C	-
Zone 2	270 - 300	°C	-
Zone 3	270 - 300	°C	-
Nozzle temperature	270 - 300	°C	-

Characteristics**Processing**

Injection Molding

Certifications

Medical Grade

Special Characteristics

Gamma irradiation sterilization

Applications

Medical

Chemical Resistance

Radiation Resistance

Regional Availability

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