

**NEW PRODUCT BULLETIN**

**IUPILON EB-3001R**

**Mitsubishi Engineering Plastics Corp.**  
**Technical Center**

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Data presented in this bulletin are typical values  
determined according to the evaluation methods of the  
supplier.

**1. Major physical properties**

A table is attached to show typical values for major physical properties.

**2. Recommended Molding Conditions**

Pre-drying: 120 , 4~5 hours

Molding temperature: 270~300

Mold temperature: 70~100

Pressure applied: 800~1200 kgf/cm<sup>2</sup>

## Typical Physical Properties of Iupilon EB-3001R

		Test Method	Units	S-3001R	EB-3001R
Physical Properties	Density	ISO 1183	g/cm <sup>3</sup>	1.2	1.2
	Water Absorption (23 °C Underwater)		%	0.24	0.24
Rheological Properties	Melt Mass-flow Rate	ISO 1133	g/10min	16	16
	Melt Volume-flow Rate		cm <sup>3</sup> /10min	16	14
	Temperature	ISO 1133		300	300
	Load		kg	1.2	1.2
	Molding Shrinkage(3.2mmt)	(MD)		0.5 ~ 0.7	0.5 ~ 0.7
		(TD)		0.5 ~ 0.7	0.5 ~ 0.7
Mechanical Properties	Tensile Modulus	ISO 527-1	MPa	2400	2500
	Yield Stress			62	62
	Yield Strain	ISO 527-2	%	6.7	6.5
	Nominal Strain at Break			119	120
	Flexural Strength	ISO 178	MPa	93	92
	Flexural Modulus	ISO 178	MPa	2300	2300
	Charpy Impact Strength (23 °C)	ISO 179-1	kJ/m <sup>2</sup>	NB	NB
Thermal Properties	Temperature of Deflection Under Load (1.80MPa)	ISO 75-1		124	126
		ISO 75-2		139	139
	Coefficient of Linear Thermal Expansion (MD)	ISO 11359-2	1/	6.5E-05	6.5E-05
				(TD)	6.6E-05
Electrical Properties	Volume Resistivity	IEC 60093	·m	3E+14	3E+14
	Surface Resistivity	IEC 60093		6E+15	6E+15

Notes All the data in this table are typical values determined according to the supplier's measuring procedures.

### Yellowness Index by Gamma-ray irradiation (25kGy)

