Iupilon® RS-1001R

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Iupilon® RS-1001R is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupilon® RS-1001R: Radiation (Gamma) Resistant.

General Information			
Features	Radiation (Gamma) Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.21	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	7.00	cm³/10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.50 to 0.70	%	
Flow : 3.20 mm	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.24	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.3	%	ISO 527-2
Nominal Tensile Strain at Break	100	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	78	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	141	°C	ISO 75-2/B
1.8 MPa, Unannealed	128	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	6.5E-5	cm/cm/°C	
Transverse	6.6E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Injection	**Nominal Value**	**Unit**	

Drying Temperature	120	°C
Drying Time	4.0 to 8.0	hr
Rear Temperature	260 to 280	°C
Middle Temperature	270 to 290	°C
Front Temperature	270 to 300	°C
Nozzle Temperature	270 to 300	°C
Mold Temperature	70.0 to 100	°C
Injection Pressure	50.0 to 150	MPa
Screw Speed	50 to 100	rpm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China