

## < Specification Data >

### Polycarbonate Resin "Iupilon CLS1000"

\* for Protective Lens

\* UV stabilizer

Properties	Test Methods	Units	Values
<b>Physical Properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.20
Water Absorption (23°C, Underwater)		%	0.24
<b>Rheological Properties</b>			
Melt Mass-flow Rate (300°C, 1.2kg)	ISO 1133	g/10min	5.3
Melt Volume-flow Rate (300°C, 1.2kg)		cm <sup>3</sup> /10min	5
Molding Shrinkage (3.2mmt) (MD)		%	0.5-0.7
(TD)			0.5-0.7
<b>Mechanical Properties</b>			
Tensile Modulus	ISO 527-1	MPa	2500
Yield Stress	ISO 527-2		63
Yield Strain		%	6.8
Nominal Strain at Break			100
Flexural Strength	ISO 178	Mpa	90
Flexural Modulus			2300
Charpy Impact Strength (23°C)	ISO 179-1	kJ/m <sup>2</sup>	NB
Charpy Notched Impact Strength (23°C)	ISO 179-2		75
<b>Thermal Properties</b>			
Temperature of Deflection Under Load (1.80MPa)	ISO 75-1		125
	ISO 75-2		138
Coefficient of Linear Thermal Expansion (MD)	ISO 11359-2	1/°C	6.5E-5
			(TD)
<b>Electrical Properties</b>			
Relative Permittivity (100Hz)	IEC 60250		3.1
(1MHz)			3.1
Dissipation Factor (100Hz)			0.0007
(1Mhz)			0.0090
Volume Resistivity	IEC 60093	Ω·m	3E+14
Surface Resistivity		Ω	4E+15
Electric Strength (1mmt)	IEC 60243-1	MV/m	31
(3mmt)			17
Comparative Tracking Index	IEC 60112		250

All data in this table are typical values obtained under MEP's standard test methods, and may not be applicable for those which are used under different conditions. These are not intended for warranty of customer's production achievement.