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< Specification Data >

Polycarbonate Resin "Iupilon ML300"

* special grade for automotive head lamp lens

* incl. releasing agent and UV stabilizer

Properties	Test Methods	Units	Values
Physical Properties			
Density	ISO 1183	g/cm ³	1.20
Water Absorption (23°C, Underwater)		%	0.24
Rheological Properties			
Melt Mass-flow Rate (300°C, 1.2kg)	ISO 1133	g/10min	16
Melt Volume-flow Rate (300°C, 1.2kg)		cm ³ /10min	15
Molding Shrinkage (3.2mmt) (MD)		%	0.5-0.7
(TD)			0.5-0.7
Mechanical Properties			
Tensile Modulus	ISO 527-1	MPa	2500
Yield Stress	ISO 527-2		62
Yield Strain		%	6.6
Nominal Strain at Break			121
Flexural Strength	ISO 178	Mpa	91
Flexural Modulus			2300
Charpy Impact Strength (23°C)	ISO 179-1	kJ/m ²	NB
Charpy Notched Impact Strength (23°C)	ISO 179-2		64
Thermal Properties			
Temperature of Deflection Under Load (1.80MPa)	ISO 75-1		124
	(0.45MPa)	ISO 75-2	139
Coefficient of Linear Thermal Expansion (MD)	ISO 11359-2	1/°C	6.3E-5
(TD)			7.3E-5
Electrical Properties			
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
Typical Processing Conditions			
Predrying Temperature		°C	120
Predrying Time		Hrs	4-8
Moding Temperature		°C	280-300
Mold Temperature		°C	60-100

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.