

LG PMMA IF850

PMMA : Injection Grade

Item	Test method	Test Condition	Unit	Value
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PHYSICAL

Melt Index	ASTM D1238	230 /3.8kg	g/10min	13.6
Specific Gravity	ASTM D792	-	-	1.18
Mold Shrinkage	ASTM D955	-	%	0.2~0.6
Water Absorption	ASTM D570	-	%	0.3

MECHANICAL

Tensile Strength	ASTM D638	50mm/min	kg/cm ²	690
Tensile Elongation	ASTM D638	50mm/min	%	10
Flexural Strength	ASTM D790	50mm/min	kg/cm ²	1,300
Flexural Modulus	ASTM D790	15mm/min	kg/cm ²	32,000
Izod Impact Strength(notched)	ASTM D256	1/4", -30	kg · cm/cm	1.6
Rockwell Hardness	ASTM D785		M - Scale	93

THERMAL

Heat Deflection Temp(annealed)	ASTM D648	1/4", 18.56kg/cm ²		92
Vicat Softening Temp	ASTM D1525	1kg/cm ²		100

ELECTRICAL

Dielectric Strength	ASTM D149		kV/mm	20
Volumn Resistivity	ASTM D257		Ω · cm	>10 ¹⁶
Dissipation Factor	ASTM 60Hz		-	0.05
Dielectric Constant	ASTM 60Hz		-	4

FLAMMABILITY

Flammability	UL 94	Class	1/8"	HB
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OPTICAL

Light Permeation	ASTM D1003			
HAZE	ASTM D1003			
Refractive Index	ASTM D542			

CHRACTERISTIC

injection, high flow

*Note : 1)The values of properties in the above table have been obtained by the test pieces(natural color) manufactured under certain of injection.

2)The listed values should be used for referential purposed only.