

I-components Hard Coat PMMA

Dimension:User spec

Thickness:0.5~3mm



Property	Test Method	Units	Value	Note
Manufacturing Specifications				
Thickness Tolerance	Thickness Measuring System	%	< ±5	0.5mm or less than 0.5mm
			< ±3	more than 0.5mm
Physical Property				
Specific gravity	ASTM D792		1.19	
Water absorption@23°C ,24hr	ISO 62	%	0.3	
Mechanical and Thermal Property				
Tensile Strength	ASTM D882	MPa	66.8~75.5	
Tensile Modulus	ASTM D882	GPa	2.5~3.0	
Flexural Strength	ASTM D790	MPa	110~140	
Flexural Modulus	ASTM D790	GPa	2.6~3.2	
Izod Impact Strength	ASTM D256	KJ/m2	2.1	
Rockwell Hardness	ASTM D785	M scale	90~101	
Pencil Hardness	ISO15184		3H	under 750g Load
Specific Heat		kJ/kg K	1.46~1.47	
Thermal Shrinkage@80°C, 30min	i-Comp. Method	%	<0.1	
Heat Deflection Temp.(1.8MPa)	ASTM D648	°C	95~102	
Optical Property				
Refractive Index n _D	ASTM D542		1.49	
Light Transmittance	ASTM D1003	%	>92	at 550nm
Yellow Index	ASTM E313	%	<0.5	
Haze	ASTM D1003	%	<0.5	
Heavy Metal Contents				
Cadmium(Cd)			N.D.	
Lead(Pb)			N.D.	
Mercury(Hg)			N.D.	
Hexavalent Chromium(Cr VI)			N.D.	ROHS Testing Report
Arsenic(As)			N.D.	
Beryllium(Be)			N.D.	
Brominated Flame Retardants				
Polybrominate Bisphenyls(PBBs)			N.D.	
Polybrominate Diphenyl Ethers(PBDEs)			N.D.	