

Chongqing Double Elephant Optical Material Optical Material Co.,Ltd.

Technical Date Sheet

Polymethyl Methacrylate (PMMA) SX-304

Items	Test standards	Unit	Data
Optical Properties			
Refractive index	ISO489	-	1.49
Transmittance	ISO13468-1	%	93
Fuzzy Coefficient(Haze)	ISO-14782	%	0.3
Thermal properties			
Coefficient of linear thermal expansion	ISO11359-2	1/°C	7×10 ⁻⁵
Vicat Softening temperature (VST)	ISO306	°C	107
Load heat distortion temperature 1.82Mpa	ISO75-2	°C	100
230 °C 3.8 kg melt flow index (MFI)	ISO 1133	g/10min	2.2
Mechanical properties			
Tensile strength	ISO 527-2	Mpa	76
Tensile rate	ISO 527-2	%	6
Bending strength	ISO 178	MPa	140
Flexural modulus	ISO 178	MPa	3300
Charpy impact strength (with notch)	ISO 179-1	KJ/m2	1.4
Rockwell hardness	ISO 2039-2	-	101
Electrical properties			
Surface resistivity	IEC 60093	Ω	>10 ¹⁶
Volume resistivity	IEC 60093	Ωcm	>10 ¹⁴

Dielectric coefficient of resistance	IEC 60167	Ω	>10 ¹⁵
Dielectric strength	IEC 60243-1	Kv/mm	20
Dielectric constant	IEC 60250	-	3.5

Other properties

Density	ISO 1183	-	1.19
Molding shrinkage	ISO 294-4	%	0.2-0.6
Water absorption	ISO 62	%	0.3
Flame retardant	UL 94	-	HB

***The above data is accurate and reliable, but it's only a representative sample of data**

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