



Suzhou Double Elephant Optical Materials Co., Ltd.

Properties

Items		Test standards	Unit	SX-301
		ISO		
Optical Properties	Refractive index	ISO 489	-	1.49
	Transmittance	ISO 13468-1	%	93
	Fuzzy Coefficient(Haze)	ISO 14782	%	0.3
Thermal properties	Coefficient of linear thermal expansion	ISO 11359-2	1/°C	7×10 ⁻⁵
	Vicat Softening temperature (VST)	ISO 306	°C	89
	Load heat distortion temperature 1.82Mpa	ISO 75-2	°C	84
	230 °C 3.8 kg melt flow index (MFI)	ISO 1133	g/10min	14
Mechanical properties	Tensile strength	ISO 527-2	Mpa	67
	Tensile rate	ISO 527-2	%	3
	Bending strength	ISO 178	MPa	115
	Flexural modulus	ISO 178	MPa	3200
	Charpy impact strength (with notch)	ISO 179-1	KJ/m2	1.3
	Rockwell hardness	ISO 2039-2	-	90
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**