TUCRYL - PMMA XT MIRROR

GENERAL			
Property	**Method**	**Units**	**PMMA-XT-MIRROR**
Density	ISO 1183	g/cm^3	1.19
Water absorption 24h/23°C-50x50x4mm3	DIN EN ISO 62 Method 1	%	0.2
Ball indentation hardness	ISO 2039-1	MPa	235
Forming temperature - air pressure		°C	140-160
Forming temperature - vaccum		°C	160-190
Moulding shrinkage		%	0.5-0.8

MECHANICAL			
Property	**Method**	**Units**	**PMMA-XT-MIRROR**
Tensile strength	ISO 527-2	MPa	70
Elongation at break	ISO 527-2	%	4
Tensile modulus	ISO 527-2	MPa	3200
Flexural strength	ISO 178	MPa	115
Flexural modulus	ISO 178	MPa	3300
Impact strength - Charpy unnotched	ISO 179-1	KJ/m^2	17
Impact strength - Charpy notched	ISO 179-1	KJ/m^2	2

THERMAL			
Property	**Method**	**Units**	**PMMA-XT-MIRROR**
Vicat temperature (B 50)*	ISO 306	°C	105
Specific heat capacity	ISO 11357-4	J/gK	1.47
Linear thermal expansion	DIN 53752	K^{-1}*x10^{-5}	7
Thermal conductivity	DIN 52612	W/mK	0.18
Service temperature continuous use		°C	70
Max. temperature short term use		°C	90
Degradation temperature		°C	>280

OPTICAL			
Property	**Method**	**Units**	**PMMA-XT-MIRROR**
Light transmission (3mm)	DIN 5036-3/ EN ISO 13468-2	%	92
Refractive index	ISO 489	n $^{D}_{20}$	1.492

ELECTRICAL			
Property	**Method**	**Units**	**PMMA-XT-MIRROR**
Surface resistivity	IEC 60093	Ω	3x10^{15} 3x10^{16}
Volume resistivity	IEC 60093	Ω x m	1x10^{13} 5x10^{13}
Electrical strength	IEC 60243-1	KV/mm	10
Dielectric strength	IEC 60243-1	kV/mm	30
Dielectrical dissipation factor 50 Hz	DIN 53483-2		0.06
Dielectrical dissipation factor 1 KHz	DIN 53483-2		0.04
Dielectrical dissipation factor 1 MHz	DIN 53483-2		0.02
Relative permitivity 50 Hz	DIN 53483-2		2.7
Relative permitivity 1 KHz	DIN 53483-2		3.1
Relative permitivity 1 MHz	DIN 53483-2		2.7

*Pre treatment 16h at 80°c
Note: The technical data of our products are typical ones; the actually measured values are subject to production variations.