ZiNG

TECHNICAL DATA SHEET
04.2021

PMMA EX

- Outstanding for its crystal-like optical qualities and weatherability. Double side protective film
- It is the most transparent polymer with a visible light transmittance of 92%, more than glass and any other transparent polymer
- PMMA EX sheets provide long-life UV resistant products for a wide range of applications.
- Bright clarity and gloss, excellent transparency and easy fabrication,

PHYSICAL & MECHANICAL PROPERTIES	TEST METHOD	UNITS	AVERAGE RESULT
Density	ISO 1183	g/cm3	1.19
Determination of Water Absorption	ISO 6 2: Method 1	%	0.3
Tensile Strength	ISO527-2	Mpa	72
Elongation at break	ISO527-2	%	4
Tensile Modulus	ISO527-2	Mpa	3300
Flexural Strenght	ISO178	Mpa	106
Flexural Modulus	ISO178	Mpa	3350
Compresive Strenght	ISO 604	Mpa	117
Rockwell Hardness	M scale		95
Impact Resistance (Charpy unnotched)	ISO 179/1fu	Kj/m²	15
Impact Resistance (Charpy notched)	ISO 179/1eA	Kj/m²	2
Impact Resistance (Izod notched)	ISO 180/1A	Kj/m²	1.5
OPTICAL PROPERTIES			
Refractive Index	ISO 489		1.49
Light Transmission	ASTM D1003	%	92
(3 mm transparent sheet)	ASTM D1003	%	<1
THERMALL PROPERTIES			
VICAT SOFTENING TEMP.(50N)	ISO306	°C	103
Heat Deflection Temp. (1.82 Mpa)	ISO75-1	°C	95
Coeff. Of Linear Thermall Expansion (0-50°C)		µm/m°C	65
Thermall Conductivity		°C	0.19
Maximum Continuous Service Temp.	ASTM C177	°C	70
Maximum Short Time Service Temp.		°C	90
Minimum Temp.		°C	-40
MECHANICAL PROPERTIES			
Dielectric Strength	DIN 53481	kV/mm	20-30
Dielectric Constant (50Hz)	DIN 53483		3.7
DissipationFactor (50Hz)	DIN 53483		0.04
Surface Resistivity	IEC 60093	Ohm	$>10^{14}$
Volume Resistivity	IEC 60093	Ohm·cm	$>10^{15}$

SPECIAL REQUIREMENTS ON REQUEST

- Additional thicknesses as required
- Non standard sizes are available

April 2021

Information is intended only as a guide and is given without guarantees. Purchaser should independently determine, prior to use, the suitability of each material for their specific purpose. The purchaser must assume all risks for any use, operation and application of the material. We are liable for damage only upon the amount of the purchase price under exclusion of indirect and accidental damage. All information given serves only to describe the product and is not to be regarded as assured properties in the legal sense. Specifications subject to change without notice, errors and omissions excepted.

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