

# PLEXIGLAS® Sheet XT, UV transmitting Clear 0A770

Polymethyl Methacrylate Acrylic

Evonik Industries AG

## Message:

PLEXIGLAS® XT Clear 0A770, an extruded clear and highly UV-permeable acrylic (polymethyl methacrylate, PMMA), was specially developed as a cover material for sun bed canopies. This means that elements made from this material are used to cover lamps in the roof section of solariums, sun beds etc.; PLEXIGLAS® XT 0A770 is not designed for rests/supports or parts entering into contact with sun bed users.

General Information			
Features	Bondability		
Appearance	Clear/Transparent		
Forms	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	ISO 1183
Water Absorption - 24 h, 23°C <sup>1</sup>	30.0		ISO 62
Maximum Service Temperature	70	°C	
Fire Rating			
--	Class 3		BS 476 Part 7
--	M4		NF P 92501
--	B2		DIN 4102
UV Transmittance	UV permeable as of 250 nm		
Forming Temperature - Reverse	> 80	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1B/1
Tensile Stress <sup>2</sup>	72.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	%	ISO 527-2/1B/5
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	12	kJ/m <sup>2</sup>	ISO 179/1fU
Notched Izod Impact Strength	2.0	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ISO 306/B
CLTE - Flow (0 to 50°C)	7.0E-5	cm/cm/°C	DIN 53752-A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+13	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	92.0	%	DIN 5036-3
Extrusion	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	2.0 to 4.0	hr	
NOTE			
1.	Method 1		
2.	Type 1B		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

