

# PLEXIGLAS® Sheet Clear 2890

Polymethyl Methacrylate Acrylic

Evonik Industries AG

## Message:

UV transmitting PLEXIGLAS® GS is a kind of cast acrylic (= polymethylmethacrylate, PMMA) specially developed for tanning beds, with high UV (ultraviolet) transmission and UV resistance. UV transmitting PLEXIGLAS® GS has a perfectly coherent surface, whether in its smooth or satin-finished version. It always feels pleasantly warm to the skin and is hygienic. It is therefore ideally suited for use in both cosmetic and therapeutic UV appliances. The material is particularly resistant to extremes of climate, i. e. also ideal for applications exposed to heat and humidity in addition to UV radiation. UV transmitting PLEXIGLAS® GS exhibits high mechanical strength at low weight. Clear 2890 with specially adjusted UV transmission for special applications.

General Information			
Features	Good Surface Finish		
	Good UV Resistance		
	High Heat Resistance		
	High Strength		
	Humidity Resistant		
	Low Molecular Weight		
	Low Temperature Resistant		
Uses	Sheet		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	> 2500	MPa	ISO 527-2
Tensile Stress (3.00 mm)	> 60.0	MPa	ISO 527-2
Tensile Strain (Break, 3.00 mm)	> 5.0	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ISO 306/B
CLTE - Flow (0 to 50°C)	7.0E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.19	W/m/K	DIN 52612
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Fire Rating			
--	M4		NF P 92501
--	Class 3		BS 476 Part 7
Normally flammable	B2		DIN 4102
Optical	Nominal Value	Unit	Test Method
Transmittance			DIN 5036-3
-- <sup>1</sup>	> 90.0	%	

3000 μm <sup>2</sup>	> 60.0	%
8000 μm <sup>3</sup>	> 25.0	%
NOTE		
1.	In the visible range	
2.	In the UV range	
3.	In the UV range	

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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



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