

PLEXIGLAS® Sheet Clear 2458

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 2458 with two smooth, transparent surfaces,

General Information			
Features	Good Surface Finish		
	Good UV Resistance		
	High Heat Resistance		
	High Strength		
	Humidity Resistant		
	Low Molecular Weight		
	Low Temperature Resistant		
Uses	Sheet		
Appearance	Clear/Transparent		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	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		

-- 1	> 90.0	%
3000 μm^2	> 80.0	%
8000 μm^3	> 70.0	%

NOTE

- | | |
|----|----------------------|
| 1. | In the visible range |
| 2. | In the UV range |
| 3. | In the UV range |

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