

# PLEXIGLAS® Sheet Mineral BV

Polymethyl Methacrylate Acrylic

Evonik Industries AG

## Message:

PLEXIGLAS® Mineral BV is a new generation of mineral materials. The patented product PLEXIGLAS® Mineral BV (a combination of acrylic resin and mineral filler) offers unique thermoforming properties combined with a finished satin or gloss surface, in very large sizes. Like no other material before, PLEXIGLAS® Mineral BV unites the benefits of this class of material with the flexibility of PLEXIGLAS®. Owing to these properties, PLEXIGLAS® Mineral BV is suitable for both horizontal and vertical applications in indoor and outdoor areas. Indoors:

Wall panels/wall protection

Wet rooms: bathrooms and spas

Shelves, window sills, furniture

Sanitaryware such as bathtubs and shower solutions, washstands

Displays, signs

Platforms

Outdoors :

Facades/wall paneling

Window sill and decor profiles

Objects of all kinds

General Information			
Features	Highlight		
	Excellent printability		
	Cleanable		
	Good chemical resistance		
	Good weather resistance		
	Low or no water absorption		
Uses	Displays		
	Furniture		
	Mineral spring recuperation supplies		
	Doors and Windows		
	Wallboard		
	Bathroom accessories		
Appearance	Unspecified Color		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	50 - 70		DIN EN 59
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup>	> 40.0	MPa	ISO 527-2/5
Tensile Strain (Break)	< 2.1	%	ISO 527-2/1B/5

Flexural Modulus	> 4700	MPa	ISO 178
Flexural Stress	> 78.0	MPa	ISO 178
Taber Abrasion Resistance	145 - 160	mg	DIN 14688
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.1	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	> 105	°C	ISO 306/B
CLTE - Flow	5.0E-5	cm/cm/°C	DIN 53752-A
Heat Deflection Temperature	100 - 108	°C	ISO 75-2
Fire Rating			
--	B2		DIN 4102
--	E		EN 13501-1
Ball Impact Resistance	> 180.00	cm	EN 483-2
Distortion			Internal method
Crosswise		%	Internal method
Longitudinal		%	Internal method
	0.90 - 1.10		
Thickness Tolerance	1.08	cm	
Weight per Unit Area (8.00 mm)	12.3	kg/m <sup>2</sup>	
Forming Temperature			
2D	> 140	°C	
3D	160 - 210	°C	
Additional Information	Nominal Value	Unit	Test Method
Resistance to thermal cycling (hot/cold water) : No cracks, no crazing, no detachment (prEN 14688:2003)			
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NOTE			
1.	Type 1B		

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#### Recommended distributors for this material

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