

## PLEXIGLAS® Mineral - 3D thermoformable

### Physical characteristics - values at 23°C and 50% RH

Mechanical properties	Values	Measurement unit	Test regulation
Flexural modulus of elasticity	min. 4700	MPa	ISO 178
Bending strength	80	MPa	ISO 178
Elongation at break	2,1	%	ISO 527-2/1B/5
Tensile strength	min. 42	MPa	ISO 527-2/1B/5
Resistance to impact by large diameter ball	> 1800	mm	EN 483-2
Apparent density	1,5	g/cm <sup>3</sup>	ISO 1183
Area weight	12 at 8 mm	kg/m <sup>2</sup>	-
Module of elasticity	min. 4800	MPa	ISO 527-2/1B/5
Charpy impact strength	1,1	kJ/m <sup>2</sup>	ISO 179/1eA
Abrasion resistance by Taber Abraser	145 - 160	mg	DIN 14688/2006
Hardness - Barcol	50 - 70		DIN EN 59
Thickness tolerance	conform		prISO 19712
Anti-slip-property	class C		DIN 51097
Fire class	B 2		DIN 4102 Part 1

Thermal properties	Values	Measurement unit	Test regulation
Thermal coefficient of elongation	50 x 10 <sup>6</sup>	1/K	DIN 53752-A
Heat-Deflection-Temperature (HDT)	104 - 108	°C	ISO 75
Vicat temperature process B	> 112	°C	ISO 306/B50
Thermoforming temperature	180 - 215	°C	
Min. bending radius	2 x	thickness of the sheet	
Thermal shock resistance	no failure		prEN 14688:2003 prISO 19712

## PLEXIGLAS® Mineral BV / NF

Properties	Unit	PLEXIGLAS® Mineral BV	PLEXIGLAS® Mineral NF back-ventilated	PLEXIGLAS® Mineral NF not back-ventilated	Test method
Flexural modulus of elasticity	MPa	min. 4,700	min. 5,800	min. 5,800	ISO 178
Flexural strength	MPa	78	min. 50	min. 50	ISO 178
Fire behavior		D, s2, d0	C, s1, d0	B, s0, d0	DIN EN 13501-1