

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	ISO 1183-1	1.31
Water absorption till saturation 23°C	%		0.45
Maximum service temp. Upper temp limit - Long term	°C		250
Lower temp limit	°C		-50
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	ISO 527-1/-2	115
Elongation at yield	%	ISO 527-1/-2	5
Tensile strength at break	MPa	ISO 527-1/-2	17
Unnotched Impact strength	kJ/m ²	ISO 179-1/1eU	no break
Notch impact strength	kJ/m ²	ISO 179-1/1eA	3.50
Ball indentation / Rockwell hardness	MPa	ISO 2039-2	105
Tensile modulus of elasticity	MPa	ISO 527-1/-2	4300
Thermal	Unit	Test Method	Result
Heat deflection temperature HDT/B	°C	ISO 75-1/-2	160
Coefficient of linear thermal expansion 23°C - 100°C	m/(m.K)		50 x 10 ⁻⁶
Thermal conductivity at 23°C	W/mK		0.25
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	IEC 62631-3-1	> 10 ¹³
Surface resistivity	Ω	ANSI/ESD STM11.11	> 10 ¹²
Dielectric constant at 1MHz		IEC 62631-2-1	3.20
Dielectric loss factor at 1 MHz		IEC 62631-2-1	0.002
Dielectric strength	kV/mm	IEC 60243-1	24
Additional Data	Unit	Test Method	Result
Food compliance - FDA		FDA	yes
Food compliance - EU		EU 10/2011	yes
Flammability	Unit	Test Method	Result
Fire performance		UL 94	V-0
Optical	Unit	Test Method	Result

All information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.