

# Technical datasheet

## PETG UV (polyethyleneterephthalate glycol UV-resistant)

Example of application
<ul style="list-style-type: none"> <li>› Machine guard</li> <li>› Packaging for medical equipment</li> <li>› Displays suitable for outdoor use</li> <li>› Cold storage and impregnation</li> </ul>

Advantage	Disadvantages
<ul style="list-style-type: none"> <li>› Easily vacuum formed, does not require pre-drying</li> <li>› Exceptional low-temperature performance</li> <li>› Very good chemical resistance, high impact resistance</li> <li>› UV-resistance</li> </ul>	<ul style="list-style-type: none"> <li>› Temperature resistant up to max. 70 °C</li> <li>› Susceptibility to scratching</li> <li>› Without FDA-conformity</li> </ul>

Basic information	Specification
Format	Sheets: 3, 4, 6 and 8 mm available in 2.05 m x 3.05 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.27	g/cm <sup>3</sup>	DIN EN ISO 1183
Moisture ingress	n.sp.	%	

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	50	N/mm <sup>2</sup>	DIN EN ISO 527
Elongation at break	54	%	DIN EN ISO 527
E-module	2.200	N/mm <sup>2</sup>	DIN EN ISO 527
Notch toughness	fracture free	kJ/m <sup>2</sup>	DIN EN ISO 179
Rockwellhardness	105	R-scale	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.2	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.68	K <sup>-1</sup> ·10 <sup>-4</sup>	DIN 53752
	1.36	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	n.sp.	°C	
Max. operating temperature, long-term	70	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	> 10 <sup>15</sup>	Ω·cm	ASTM D257
Outer surface coefficient	> 10 <sup>16</sup>	Ω	ASTM D257
Puncture resistance	16	kV/mm	ASTM D149

Legend
n.sp.= not specified

\*Higher specification on request.

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