Technical datasheet

PETG (polyethyleneterephthalate glycol)

Example of application
› Machine guard › Packaging for medical equipment › Displays suitable for outdoor use › Cold storage and refrigeration

Advantage	Disadvantages
› Easily vacuum formed, does not require pre-drying › Exceptional low-temperature performance › Very good chemical resistance › High impact resistance › FDA-conform › Cold & warm mouldable	› Temperature resistant up to max. 70 °C › Susceptibility to scratching

Basic information	Specification
Format	**Sheets:** 2 mm up to 20 mm available in 2.05 m x 3.05 m

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

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	50	N/mm^2	DIN EN ISO 527
Elongation at break	54	%	DIN EN ISO 527
E-module	2.280	N/mm^2	DIN EN ISO 527
Notch toughness	fracture free	kJ/m^2	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	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.36	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	70	°C	
Max. operating temperature, long-term	65	°C	

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

Legend
n.sp.= not specified

*Higher specification on request.

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