

TECHNICAL DATA SHEET
PETG SHEETS, EXTRUDED – CO POLYESTER – CLEAR – STANDARD AND UV-PROTECTED

GENERAL			
Property	Method	Unit	HIPEX[®]G
Density	DIN EN ISO 1183	g/cm ³	1.27
Rockwell hardness	DIN EN ISO 2039-1 ASTM D-785	R-Scale	105
MECHANICAL			
Property	Method	Unit	HIPEX[®]G
Flexural Modulus	DIN EN ISO 178	MPa	1900
Flexural Strength	DIN EN ISO 178	MPa	70
Tensile Modulus	DIN EN ISO 527-2	MPa	2000
Tensile Strength	DIN EN ISO 527-2	MPa	50
Elongation	DIN EN ISO 527-2	%	60
Impact strength - Izod (notched)	DIN EN ISO 180/4A	kJ/m ²	11.5
Impact strength - Charpy (notched)	DIN EN ISO 179-1/1eA	kJ/m ²	7
Impact strength - Charpy (unnotched)	DIN EN ISO 179-1	kJ/m ²	NB
OPTICAL			
Property	Method	Unit	HIPEX[®]G
Light transmisssion (3mm)	DIN EN ISO 13468-2	%	88
Refractive index	DIN EN ISO 489	n _D ²⁰	1.57
Haze	DIN EN ISO 14782 ASTM D1003	%	<1
Solar energy transmittance_ g- value_	EN 410	%	3 mm_83 10 mm_78

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THERMAL			
Property	Method	Unit	HIPEX[®]G
VICAT -Temperature (method B50)	DIN EN ISO 306	°C	70
Heat Deflection Temp. (A/B)	DIN EN ISO 75-2	°C	72/68
Specific Heat Capacity	DIN EN ISO 11357-4	J/gK	1.1
Coefficient of linear thermal expansion	DIN 53752/ ISO 11359-2	mm/m °C	0,068
Thermal conductivity	DIN 52612 DIN EN ISO 22007-1	W/mK	0.20
Degradation temperature	-	°C	>280
Max. service temperature continuous use	-	°C	65
Max service temperature short term use	-	°C	70
Forming temperature	-	°C	120 - 160
ELECTRICAL			
Property	Method	Unit	HIPEX[®]G
Dielectric constant (100 Hz)	IEC 250 DIN 53483-2	-	2.6
Volume Resistivity	IEC 60093 DIN EN 62631-1-3-1 ASTM D 257	Ω m	≥10 ¹⁵
Surface Resistivity	IEC 60093 DIN EN 62631-1-3-2 ASTM D257	Ω	≥10 ¹⁶
Dielectric strength	IEC 60243-1 ASTM D149	kV/mm	16
Dissipation factor (50 Hz)	IEC 250 / DIN 53483-2	-	0.01

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OTHERS			
Property	Method	Unit	HIPEX[®]G
Fire performance (building product) up to 10mm	DIN 4102-1	Technical Approval	B1
Fire performance (building product) 0.8mm – 10mm	BP – VO 305/2011 DIN EN EN13501-1	Classification	B - s1, d0
Biocompatibility (skin contact)	DIN EN 10993-5	Classification	not cytotoxic

Remark: Technical data of our products are typical ones. The actually measured values are subject to production variations.