

GENERAL			
Property	Method	Unit	HIPEX® A
Density	DIN EN ISO 1183-1	g/cm ³	1.33
Surface hardness	ISO 868	Shore D	50
MECHANICAL			
Property	Method	Unit	HIPEX® A
Flexural modulus	EN ISO 178	MPa	2500
Tensile strength	DIN EN ISO 527-2	MPa	>55
Coefficient of linear expansion	DIN EN ISO 75-2	mm/(m·K)	0.05
Impact strength – Charpy (unnotched)	DIN EN ISO 179-1	kJ/m ²	NB (no break)
OPTICAL			
Property	Method	Unit	HIPEX® A
Light transmission (3 mm clear transparent)	DIN 5036	%	>86
THERMAL			
Property	Method	Unit	HIPEX® A
Max. service temperature		°C	65
OTHERS			
Property	Method	Unit	HIPEX® A
Fire classification	EN 13501-1	Classification	B-s1, d0

Note: These technical data of our products are typical ones; the actually measured values are subject to production variations.

GENERAL			
Property	Method	Unit	HIPEX® G
Density	DIN EN ISO 1183-1	g/cm ³	1.27
Rockwell hardness	EN ISO 2039-1 / ASTM D-785	M-Scala	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 (no break)
OPTICAL			
Property	Method	Unit	HIPEX® G
Light transmission (3 mm clear transparent)	DIN EN ISO 13468-1	%	88
Refractive index	DIN EN ISO 489	n _D ²⁰	1.57
Haze	ISO 14782 / ASTM D1003	%	<1
Solar energy transmittance g-value	DIN EN 410	%	3 mm 82.4 / 10 mm 79.4
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	60
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 D257	Ω.cm	>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 / DIN53483-2		0.01
OTHERS			
Property	Method	Unit	HIPEX® G
Fire performance (building product) up to 10 mm	DIN 4102-1	Technical Approval	B1
Fire performance up to 10 mm	DIN EN13501-1	Classification	B-s1, d0
Biocompatibility (skin contact)	DIN EN 10993-5	Classification	not cytotoxic

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