

HIPS

High impact polystyrene sheet

Color: Clear or customized

Density:1.10g/cm³



...We pay more attention to after-sales!

Material Data Sheet

Mechanical Properties	Value	Unit	DIN/EN/ISO
Tensile strength at yield	26	MPa	527/D638
Elongation at yield	50	%	527
Modulus of elasticity in tension	2007	MPa	D790
Impact strength	100	J/m	179/D256
Flexural Strength	50	MPa	D790
Time yield limit for 1% elongation after1000hrs	-	MPa	-
Frictional coefficient	-	-	-
Rockwell hardness	70	-	D785

Thermal Properties	Value	Unit	DIN/EN/ISO
Glass transition temperature (TG)	-	°C	53736
Crystalline melting point	95	°C	53736
Heat Deflection Temp.(@0.45MPa)	87	°C	-
Heat Deflection Temp. (@1.15MPa)	73	°C	53736
Coefficient of thermal expansion	76×10^{-6}	m/(m*k)	53483/D696
Specific heat	-	J/(g*K)	-
Coefficient of thermal conductivity	-	W(k*m)	-

Electrical properties	Value	Unit	DIN/IEC
Surface resistivity	-	Ω	60093
Volume resistivity	$\geq 10^{14}$	$\Omega \cdot \text{cm}$	60093
Dielectric strength	>18	kv/mm	60243

Other properties	Value	Unit	DIN/EN/ISO
Water absorption @ saturation @ 23°C	<0.1	%	62
Resistance to hot water , washing soda	Resistant	-	-
Resistance to weathering	Yes	-	-
Flammability(UL94)	HB	-	UL94

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The following information corresponds with our current knowledge and indicates our products and possible applications; We cannot give a legally binding guarantee of certain properties or the suitability for a specific application, Existing commercial patents must be observed.

A definitive quality guarantee is given in our general conditions of sales. Unless otherwise stated, these values represent averages taken from injection moulding samples, We reserve the right of technical alterations.