

X Board Extruded Plastic Sheet - Technical Data

PHYSICAL PROPERTIES			
Properties	Method	Units	PP*
Specific gravity PP	ISO 1183	g/cm ³	0.907
Water absorption	ISO 62	%	0.02

MECHANICAL PROPERTIES			
Properties	Method	Units	PP*
Tensile strength (50 mm/min)	ISO 527	MPa	38
Elongation at break (50 mm/min)	ISO 527	%	800
Flexural modulus	ISO 178	MPa	1250
Impact strength Izod (23°C)	ISO 180	kJ/m ²	80
Shore D hardness	ISO 868	-	66

MECHANICAL PROPERTIES			
Properties	Method	Units	Biplex
Compression strength 2,1mm/350g	internal IPB	N/cm ²	min 37
at maximum 2,0mm/400g	internal IPB	N/cm ²	min. 14
3,0mm/650g	internal IPB	N/cm ²	min. 55
4,5mm/1000g	internal IPB	N/cm ²	min. 144

THERMAL PROPERTIES			
Properties	Method	Units	PP*
Coefficient of linear expansion	ASTM D696	mm/m°C	0.18
Specific Heat	DSC	J/g°C	1.68
Heat deflection temp. (0,46 MPa)	ISO 75	°C	78
Heat deflection temp. (1,82 MPa)	ISO 75	°C	52
Vicat softening point (1 kg) (10N)	ISO 306	°C	148
Vicat softening point (5 kg) (50N)	ISO 306	°C	78

X Board Extruded Plastic Sheet - Technical Data

OPTICAL PROPERTIES				
Properties		Method	Units	Biplex
<i>Light transmission (clear sheet)</i>	2,0mm/400g	<i>internal IPB</i>	%	58
	2,5mm/450g	<i>internal IPB</i>	%	53
	3,0mm/500g	<i>internal IPB</i>	%	51
	4,0mm/1000g	<i>internal IPB</i>	%	37

ELECTRICAL PROPERTIES				
Properties		Method	Units	PP*
<i>Surface resistivity</i>		<i>ASTMD257</i>	Ω	<i>ca. 10¹³</i>
<i>Dielectric constant (at 1 MHz)</i>		<i>ASTMD150</i>	-	2.25
<i>Dissipation factor (tg δ at 1MHz)</i>		<i>ASTMD150</i>	-	<i>< 5 x 10⁻⁴</i>
<i>Dielectric strength (500V/sec)</i>		<i>ASTMD149</i>	<i>kV/mm</i>	70

PP = test results based upon raw material*

Temporary and limited list made to our best knowledge at this time.

The technical data concerning our products are not binding and are given for guidance only.

Plastic Trading International
3612 Ventura Drive E
Lakeland, FL 33811
863-688-1983