

Floor Protection 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 (general guide)			
Properties	Method	Units	Proplex
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

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ELECTRICAL PROPERTIES			
Properties	Method	Units	PP*
Surface resistivity	ASTMD257	Ω	ca. 10^{13}
Dielectric constant (at 1 MHz)	ASTMD150	-	2.25
Dissipation factor ($\text{tg } \delta$ at 1MHz)	ASTMD150	-	$< 5 \times 10^{-4}$
Dielectric strength (500V/sec)	ASTMD149	kV/mm	70

FIRE RETARDANT (FR) SHEET PROPERTIES

Where sold and marked as "Fire Retardant", Premium+ FR Floor Protection Sheets meet the standards & are independently certified to LPS1207 as published by the LPCB.

Only those sheets marked with the LPCB LPS1207 approval logo meet this standard.

Care should be taken to ensure sheets are laid face up so printed surface remains visible.

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.

For more specific information, please feel free to contact our technical department :

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