

## Proplex<sup>®</sup> protection sheets - Technical data sheet

### 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	$mm/m^{\circ}C$	0.18
Specific Heat	DSC	$J/g^{\circ}C$	1.68
Heat deflection temp. (0,46 MPa)	ISO 75	$^{\circ}C$	78
Heat deflection temp. (1,82 MPa)	ISO 75	$^{\circ}C$	52
Vicat softening point (1 kg) (10N)	ISO 306	$^{\circ}C$	148
Vicat softening point (5 kg) (50N)	ISO 306	$^{\circ}C$	78

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<b>ELECTRICAL PROPERTIES</b>			
Properties	Method	Units	PP*
Surface resistivity	ASTMD257	$\Omega$	ca. $10^{13}$
Dielectric constant (at 1 MHz)	ASTMD150	-	2.25
Dissipation factor (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 Proplex 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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