

TECHNICAL DATA SHEET FOR PP CORRUGATED SHEETS

1. PHYSICAL PROPERTIES

Properties	Method	Units	PP
Specific gravity PP	ISO 1183	G/cm ³	0,907
Water absorption	ISO 62	%	0,02

2. 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		Mpa	
Impact strength IZOD (23°C)	ISO 178		1250
Shore D hardness	ISO 180	KJ/m ²	80
	ISO 868	-	66
Compression stress at maximum			
2,1 mm/350 gr	Internal laboratory	N/cm ²	for sheets min. 37
2,0 mm/400 gr		N/cm ²	min. 14
3,0 mm/650 gr		N/cm ²	min. 55
4,5 mm/1000 gr		N/cm ²	min. 144

3. THERMAL PROPERTIES

Properties	Method	Units	PP
Dilatation coefficient	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) (10 N)	ISO 306	°C	148
Vicat softening point (5 kg) (50 N)	ISO 306	°C	78

4. OPTICAL PROPERTIES

Properties	Method	Units	Sheets
Light transmission (clear sheet)			
2,0 mm/400 gr	Internal laboratory	%	58
2,5 mm/450 gr		%	53
3,0 mm/500 gr		%	51
4,0 mm/1000 gr		%	37

5. ELECTRICAL PROPERTIES

Properties	Method	Units	Sheets
Surface resistivity	ASTMD 257	Ω	Ca. 10 ¹³
Dielectric constant (at 1 MHz)	ASTMD150	-	2,25
Dissipation factor (tg δ at 1 MHz)	ASTMD150	-	< 5 x 10 ⁻⁴
Dielectric strength (500 V/sec)	ASTMD149	kV/mm	70