



PHYSICAL PROPERTIES

Specific gravity	ISO 1183	g/cm ³	0.907
Water absorption	ISO 62	%	0.02

MECHANICAL PROPERTIES

Compression strength 2,1mm/350g	internal IPB	N/cm ²	min 37
(at maximum) 2,0mm/400g	internal IPB	N/cm ²	min 14
(at maximum) 3,0mm/650g	internal IPB	N/cm ²	min 55
(at maximum) 4,5mm/1000g	internal IPB	N/cm ²	min 144
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

THERMAL PROPERTIES

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

OPTICAL PROPERTIES

Light transmission 2.0mm/400g	internal IPB	%	58
2.5mm/450g	internal IPB	%	53
3.0mm/500g	internal IPB	%	51
4.0mm/1000g	internal IPB	%	37

ELECTRICAL PROPERTIES

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