

SPECIFICATIONS OF TRESPEX 1 mm. 1001 Clear

Thickness Tolerance : 0,75-1,25 mm.

PROPERTIES		ASTM METHOD			DIN -METHOD		
			UNIT			UNIT	
PHYSICAL	DENSITY (SPECIFIC WEIGHT)	1,19	g/cm ²	D792	1,19	g/cm ²	53479
	WATER ABSORPTION	0,25	%	D570	25	mg	53495
MECHANICAL	MODULUS OF ELASTICITY	32000	Kg/cm ²	D790	3200	N/mm ²	53457
	TENSILE STRENGTH	740	Kg/cm ²	D638	74	N/mm ²	53455
	FLEXURAL STRENGTH	1200	Kg/cm ²	D790	120	N/mm ²	53452
	ELONGATION AT BREAK	3	%	D638	3	%	53455
	IMPACT STRENGTH WITH NOTCH (IZOD)	2	Kg cm/cm ²	D256	2	KJ/m ²	53453
	IMPACT STRENGTH UNNOTCHED (CHARPY)	25,	Kg cm/cm ²	D256	27	KJ/m ²	53453
	ROCKWELL HARDNESS BALL DROP H98/30	M100 —	— —	D785 —	— 200	— N/mm ²	- 53453
THERMAL	COEFFICIENT OF THERMAL CONDUCTIVITY	5.10 ⁻⁴	callcm s/ °C	C177	0,19	W/m °C	52612
	DEFLECTION TEMPERATURE (1,8 N/mm ²)	105	°C	D648	105	°C	53461
	SOFTENING POINT VICAT	≥ 115	°C	D1525	≥ 115	°C	53460
	COEF. OF LINEAR THERMAL EXPANSION	7,5.10 ⁻⁵	11°C	D696	70.10 ⁻⁴	1/°C	VDE 030411
	SPECIFIC HEAT	0,35	cal/g°C	—	—	—	—
OPTICAL	REFRACTIVE INDEX n ²⁰ _D	1,49	—	D542	1,49	—	53491
	LIGHT TRANSMITTANCE	92	%	D1003/A	92	%	5036
	HAZE	0,50	%	D1003/A	—	—	—
ELECTRICAL	DIELECTRIC STRENGTH	20	KV/mm	D149	20	KV/mm	53481
	VOLUME RESISTIVITY	10 ¹⁵	Ohm/cm	D257	—	—	—
	SURFACE RESISTIVITY	10 ¹⁴	Ohm	D257	10 ¹⁴	Ohm	53482
	TRANSVERSAL RESISTIVITY	> 10 ¹⁵	Ohm/cm	D257	> 10 ¹⁵	Ohm/cm	53482
	DIELECTRIC CONSTANT (50Hz)	3,5	—	D150	3,5	—	53483
	POWER FACTOR (50 Hz)	0,05	—	D150	0,06	—	53483
RESISTANCE TO CHEMICAL AGENTS: ACIDS, BASES AND INORGANIC SALTS							