

GENERAL PROPERTIES	TEST STANDARD	UNIT	VALUE
Density	ISO 1183	g/cm ³	1,19
Water absorption 24 hrs	ISO R 62 / DIN 53495	%	0,3
Water absorption 8 days	ISO R 62 / DIN 53495	%	0,5
Max.water absorption 1200 hrs	internal	%	1,75
MECHANICAL PROPERTIES	TEST STANDARD	UNIT	VALUE
Poisson's ratio	ISO 527-1		0,39
Tensile strength at 23°C	ISO 527-2/1 B/5	MPa	76
Modulus of elasticity at 23°C	ISO 527-2/1 B/1	MPa	3300
Elongation at break at 23°C	ISO 527-2/1 B/5	%	5
Flexural strength	ISO 178	MPa	110
Notched impact strength (Izod)	ISO 180/1 A	KJ/m ²	1,4
Impact strength (Charpy)	ISO 179/1	KJ/m ²	13
Rockwell hardness M scale	ISO 2039-2		95
Compressive yield stress	ISO 604	MPa	110
Abrasion resistance	ISO 14782	%	0,5 to 1
ELETRICAL PROPERTIES	TEST STANDARD	UNIT	VALUE
Dielectric strength	DIN 53481	KW/mm	20 to 25
Volume resistivity	DIN 53482	ohm x cm	> 10 15
Dielectric constant at 50 Hz	DIN 53483		3,7
Dielectric constant at 1 Hz	DIN 53483		2,6
OPTICAL PROPERTIES	TEST STANDARD	UNIT	VALUE
Transmittance	ISO 4892-1 / DIN 5036	%	92
Refractive index	ISO 4892 / DIN 53491		1,49
THERMAL PROPERTIES	TEST STANDARD	UNIT	VALUE
Coefficient of linear thermal expansion	ISO EN 2155-1	mm/m/°C	0,065
Thermal conductivity	DIN 52612	W/m/°C	0,17
Specific heat	ASTM C 351	J/g/°C	1,35
Vicat softening temperature	ISO R 306 Method A50	°C	> 108
Heat deflection temperature under load HDT	ISO 75/A	°C	102
Dimensional change on heating (shrinkage)		%	2,5
Permanent service temperature		°C	80
Oven temperature		°C	130-180
Max heating temperature		°C	200
Max surface temperature (IR radiator)		°C	200
FLAMMABILITY TEST	TEST STANDARD	UNIT	VALUE
Ignition temperature	DIN 51794	°C	425 approx
Fire rating	DIN 4102		B2 normal flammability
	NF P 9250		M4
	BS 476 Part. 7		class 3

The trials have been done on random samples and the values are not strictly binding.

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