WIRTHEIM Plastic – POLYCARBONATE sheet

GENERAL PROPERTIES	Method	Units	Value
Density	ISO 1183-1	gr/cm3	1.2
Water absorption saturation 23 °c	ISO 62	%	0.3
water absorption equilibrium 23 °c ,	ISO 62	%	0.3
50% relative humidity			
MECHANICAL PROPERTIES			
Tensile modulus	ISO 527-1,2	MPa	2350
Yield stress	ISO 527-1,2	MPa	65
Yield strain	ISO 527-1,2	%	6.3
Nominal strain at break	ISO 527-1,2	%	>50
Stress at break	ISO 527-1,2	MPa	70
Strain at break	ISO 527-1,2	%	120
Charpy impact strenght	ISO 179-1	Kj/m2	No break
THERMAL PROPERTIES			
Vicat softening temparature	ISO 306	°C	148
Thermal conductivity 23 °c	ISO 8302	W/(m·K)	0,2
Coefficient of linear thermal -	ISO 11359-1	mm/m°C	0,065'
expansion 23 to 55 °c			
Temparature of deflection under -	ISO 75-1,2	°C	128
1.80 Mpa load			
Temparature of deflection under -	ISO 75-1,2	°C	140
0.45 Mpa load			
ELECTICAL PROPERTIES			
Volume resistivity	IEC 60093	Ohm.cm	1,00E+14
Electric strenght	IEC 60243-1	KV/mm	34
Surface resistivity	IEC 60250	Ohm	1,00E+16

Acoustic Values EN 14388	**Thickness - mm**	**Sound Reduction Values - dB**
	8 mm	28
	12 mm	31
Size of polyreef polycarbonate sheet	**Width**	**Length**
	1250 mm	2050 mm
	2050 mm	3050 mm
Fire Performance		
Method	**Classification**	**Sheet thickness**
EN 13501	B, s1 , d0	4;5;6 mm
NF 92 501/505	M2	8mm
UL-94	V0	10mm