

# POLYCARBONATE SHEET UV2 PROTECTED

Property	Method	Units	Value
<b>GENERAL</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.2
<b>OPTICAL</b>			
Light Transmission	DIN 5036	%	86
Refractive Index	T3	n	1.585
<b>MECHANICAL</b>			
Flexural Modulus	ISO 489	MPa	
Flexural Strength	ISO 178	MPa	> 95
Tensile Modulus	ISO 527	MPa	2200
Tensile Strength	ISO 528	MPa	60
Elongation	ISO 529	%	80
Elongation ( at break)	ISO 527	%	110
<b>IMPACT STRENGTHS</b>			
Izod ( Notched) +23oC	ISO 180/1A	kJ/m <sup>2</sup>	65
Charpy ( notched)	ISO 179	kJ/m <sup>2</sup>	>40
Charpy ( unnotched)	ISO 179	kJ/m <sup>2</sup>	No Break
<b>THERMAL</b>			
Vicat Temperture	ISO 306	°C	>140
Heat Deflection Temperture	ISO R 75	°C	135
Coefficient of linear thermal expansion	DIN 53328	K <sup>-1</sup> x 10 <sup>-5</sup>	6.7
Thermal Conductivity	DIN 52612	W/mK	0.21
Max continuous service Temperture		°C	115
Thermoforming temperture range		°C	180 - 210

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<b>ELECTRICAL</b>			
Dielectric Constant	DIN 53483		3
Dielectric Strength	DIN 53481	kV/mm	>30
Volume Resistivity	DIN 53482	Ohm.cm	$10^{15}$
Surface Resistivity	DIN 53482	Ohm	$10^{15}$

**CHEMICAL RESISTANCE**

Chemical	Affected	Not Affected	Limited Affect
Acetone	X		
Acids ( Weak)		X	
Alcohols		X	
Ethyl		X	
Isopropyl			X
Methyl	X		
Ammonia ( weak solution)	X		
Benzene	X		
Carbon Tetrachloride	X		
Chloroform	X		
Ethyl Acetate	X		
Glycols		X	
Glycerine		X	
Hexane		X	
Methylene Chloride	X		
Methylethylketone	X		
Mineral Oil		X	
Paraffin		X	
Toluene	X		
Sodium Chloride ( aq)		X	
Sodium Hydroxide ( aq)	X		