

POLYCARBONATE SHEET UV2 PROTECTED

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



Extrusion Division

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ELECTRICAL			
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		