



SPECIFICATION SHEET

**PC001 – Clear polycarbonate**

Properties	Unit	Test method	Results
<b>Physical</b>			
Specific gravity	g/cm <sup>3</sup>	ISO 1183	1.20
Maximum service temp. Upper temp limit – short term	°C	-	135
Maximum service temp. Upper temp limit – long term	°C	-	115
Lower temp limit	°C	-	-40
<b>Mechanical</b>			
Tensile strength	MPa	ISO 527-2	60
Elongation at yield	%	ISO 527-2	80
Unnotched impact strength	kJ/m <sup>2</sup>	ISO 179	No break
Notch impact strength	kJ/m <sup>2</sup>	ISO 179-1/1eA	>13
Ball indentation / Rockwell hardness	MPa	ISO 2093-1	110
Flexural modulus of elasticity	MPa	ISO 178	2000
Tensile modulus of elasticity	MPa	ISO 527-2	2200
<b>Thermal</b>			
Vicat-softening point VST/B/50	°C	ISO 306	145
Heat deflection temperature HDT/B	°C	ISO R75	135
Coefficient of linear thermal expansion 23°C - 100°C	m/(m.K)	ISO 11359-2	0.065
<b>Electrical</b>			
Volume resistivity	Ω x m	IEC 60093	1x10(15)
Surface resistivity	Ω	IEC 60093	1x10(15)

Dielectric loss factor at 1 MHz	-	DIN 53483	8x10-4
Dielectric strength	kV/mm	IEC 60243-1	>30
Comparative tracking index (CTI)	-	IEC 60112	Cti-250
Additional data			
Food compliance (FDA)	-	-	No
Food compliance (EU)	-	-	No
Fire performance	-	13501	B-s1,d0
Light transmission	%	13468-1	86
Refractive index	nD 20	489	1.585
Solar energy transmittance g-value	%	EN 410	3mm-81, 7, 10mm-78,5

**QUALITY ASSURED PRODUCTS WITH FULL TRACEABILITY**

Care should be taken in selecting the most suitable quality for each application.

Advice is available but final responsibility remains with the customer.