

# PC Sheet - Technical Data Sheet



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<b>GENERAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>Value</b>
Density	ISO 1183	g/cm <sup>3</sup>	1.2
Rockwell Hardness	D-78	M-scale	-

<b>OPTICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>Value</b>
Light Transmission	DIN 5036	%	86
Refractive Index	T3	n <sup>D</sup> <sub>20</sub>	1.585

<b>MECHANICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>Value</b>
Flexural Modulus	ISO 489	MPa	-
Flexural Strength	ISO 178	MPa	>95
Tensile Modulus	ISO 527	MPa	2200
Tensile Strength	ISO 527	MPa	60
Elongation	ISO 527	%	80

<b>THERMAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>Value</b>
Vicat Temp (VST/A 50)	ISO 306	°C	145
Heat Deflection Temp. (A/B)	ISO R75	°C	135
Specific Heat Capacity	-	J/gK	1.17
Coefficient of linear thermal expansion	DIN 53328	K <sup>-1</sup> x10 <sup>-5</sup>	6.5
Thermal Conductivity	DIN 52612	W/mK	0.2
Degradation temperature		°C	>280
Max. Service temp. continuous use		°C	115
Max. Service temp. short term use		°C	130
Sheet forming temp. range		°C	180-210

<b>IMPACT STRENGTHS</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>Value</b>
Izod (notched)	ISO 180	KJ/m <sup>2</sup>	-
Charpy (notched)	ISO 179	KJ/m <sup>2</sup>	10
Charpy (unnotched)	ISO 179	KJ/m <sup>2</sup>	NB

<b>ELECTRICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>Value</b>
Dielectric constant 50 HZ	DIN 53483		3
Volume Resistivity	DIN 53482	Ω.cm	10 <sup>15</sup>
Surface Resistivity	DIN 53482	Ω	>10 <sup>15</sup>
Dielectric Strength	DIN 53481	kV/mm	>30
Dissipation Factor (50 HZ)	DIN 53483		8x10 <sup>-4</sup>