

Technical Data Sheet

Item	CARBOREX PC Optical Sheet
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Section	Properties	Unit	Value	Method
Flame Characteristics	UL Recognition	Class	V-2	UL 94
Physical	Specific Gravity	g/cm ³	1.2	ASTM D792
	Water absorption rate	%	0.2	ASTM D 570 (23°C, 24hr)
Optical	Total Transmittance	%	89	ASTM D1003
	Haze	%	< 1.0	ASTM D1003
	Refractive index	-	1.59	ISO 489
Mechanical	Tensile Strength at Yield	MPa	65	ASTM D 638
	Tensile Modulus of Elasticity	GPa	2.55	ASTM D 638
	Elongation at Break	%	90	ASTM D 638
	Flexural Strength	MPa	95	ASTM D 790
	Flexural Modulus	GPa	2.7	ASTM D 790
	Izod Impact Strength	J/m	860	ASTM D 256 (Notched)
	Rockwell Hardness	R Scale	116	ASTM D 785
Thermal	Heat Distortion Temp. (@1.8MPa)	°C	135	ASTM D648
	Heat Distortion Temp. (@0.45MPa)	°C	140	ASTM D648
	Vicat Softening Temp.	°C	146	ASTM D1525
	Coefficient of Thermal expansion	cm/cm/°C	6.5×10 ⁻⁵	ASTM D696
Electical	Dielectric Constant (60Hz)	%	3.1	ASTM D150
	Volume Resistivity	ohm-m	2 x 10 ¹⁷	ASTM D 257

※ All above typical values are not guaranteed but for reference only.
All actual values should be approved by the customer.