

**PHYSICAL PROPERTIES OF DS ACRYLIC SHEET**

Properties		Unit	Values	Test Standards
Basic	Density	g/cm ³	1.20	ISO 1183
	Transmittance	%	92.	DIN 5036
	Water absorption	mg	41	ISO 62, Methode 1
	Weather resistant	--	excellent	--
Mechanical	Tensile strength	MPa	79.6	ISD 527-2/1B/5
	Flexural strength	MPa	121	ISO 178
	Modulus of elasticity	MPa	3200	ISD 527-2/1B/1
	Izod Notched impact strength(Lzod)	KJ/m ²	1.6	ISO 180/1A
	Charpy Notched impact strength (Charpy)	KJ/m ²	15	ISO 179/1fu
	Elongation to crack	%	5.5	ISO 527-2/1B/5
	H961/30 Indentation hardness H961/30	MPa	175	ISO 2039-1
Thermal	Forming temperature	°C	160-175	--
	Heat deflection temperature	°C	115	ISO 75
	Max. Permanent service temperature	°C	80	--
	Coefficient of linear thermal expansion	1/K	7x10 ⁻⁵	DIN 53752-A
Electrical	Volume resistivity	Ω.cm	>10 ¹⁵	DIN VDE 0303
	Surface resistivity	Ω	5x10 ¹³	DIN VDE 0303
	DIN VDE 0303	KV/mm	30	DIN VDE 0303