

PC (POLYCARBONATE)
MATERIAL DATA SHEET

	PROPERTIES	TEST METHOD	UNIT	VALUE
MECHANICAL	Yield point	DIN EN ISO 527	MPa	65
	Elongation at break	DIN EN ISO 527	%	80
	Tensile modulus of elasticity	DIN EN ISO 527	MPa	2300
	Notched impact strength (Charpy)	ISO 179/1eA/Pendel 1J	kJ/m ²	20
	Ball indentation hardness	DIN EN ISO 2039-1	n/MM ²	130
	Shore – Hardness	DIN 53505	Skala D	82
THERMAL	Coefficient of linear thermal expansion at 20÷60°C	-	10 ⁻⁶ Xk ⁻¹	70
	Thermal conductivity	DIN 52612	W/Km	0,21
	Melting temperature	ISO 11357	°C	-
	Specific thermal capacity	DIN 52612	kJ/kgK	1,2
	Service temperature – long term	-	°C	-40 ÷ 115
	Service temperature – short term, max	-	°C	140
	Heat deflection temperature, Method A:1,8 MPa	DIN EN ISO 75	°C	135
ELECTRICAL	Dielectric strength	IEC 60243	kV/mm	30
	Surface resistivity	IEC 60093	Ω	10 ¹⁵
	Dielectric constant at 50 Hz	IEC 60250	-	3
	Dielectric dissipation factor at 50 Hz	IEC 60250	-	0,001
	Volume resistivity	IEC 60093	Ω cm	10 ¹⁵
	Comperative tracking index CTI, Sol.A	IEC 60112	-	275
GENERAL	Density	DIN 53479	g/cm ³	1,20
	Moisture absorption (saturation in air of 23°C/50%RH)	DIN EN ISO 62	%	0,20
	Flammability acc.to UL 94 n(Thicn.3mm/6mm)	ISO 1210 (ul94)	-	HB/HB

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