Technical datasheet

PC (Polycarbonat) Food Grade blue

Example of application
› machine covers, safety covers › food packaging › suitable for contact with food products

Advantage	Disadvantages
› useable from -40 °C to +115 °C › self-extinguishing › could mouldable › FDA- and EU-compliant	› poor chemical resistance › moistre ingress › susceptibility to scratching

Basic information	Specification
Format	**Sheets:** 2, 3 , 4, 5, 6, 8, 10, 12 and 15 mm available in 3.05 m x 2.05 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.2	g/cm³	DIN EN ISO 1183
Moisture ingress	n.sp.	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	60	N/mm²	DIN EN ISO 527
Elongation at break	80	%	DIN EN ISO 527
E-module	2.200	N/mm²	DIN EN ISO 527
Notch toughness	fracture free	kJ/m²	DIN EN ISO 179
Rockwellhardness	n.sp.	n.sp.	DIN EN ISO 2039-1

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.2	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.65	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.3	mm	At inital length of 1.000 mm and a temperature difference of 20 °C
Max. operating temperature, short-term	130	°C	
Min. operating temperature, long-term	- 40	°C	
Max. operating temperature, long-term	115	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10^{15}	Ω·cm	DIN 53482
Outer surface coefficient	> 10^{15}	Ω	DIN 53482
Puncture resistance	> 30	kV/mm	DIN 53481

Legend
n.sp. = not specified

*higher specification on request.

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