

KASI®-SunFlex scratch-resistant coating for PC

Special coating for polycarbonate providing in outdoor areas high scratch-resistance, hardness and chemical resistance combined with further improved climatic resistance and reliable protection against ultra-violet radiation.

Typical properties

Revision: 08/05	Standard	Dimension	KASI®-SunFlex
General properties			
Bulk density*	ISO 1183	g/cm ³	1,2
Water absorption 24h, 23°C*	ISO 62	mg/kg	<8
Mechanical characteristics			
Tensile strength*	ISO 527	MPa	60
Elongation at tear*	ISO 527	%	110
Modulus of elasticity*	ISO 527	MPa	2200
Impact resistance*	ISO 179	kJ/m ²	not broken
Abrasion (Taber-process; 1000 rotations; CS-10F; 500 g)	ISO 9352	% Haze	<10
Thickness of layer		µm	6 - 10
Adhesive properties 0,5/1,0/2,0 h boiling period at 100°C	ISO 2409		GT 0/0/0
Climatic resistance	ISO 4892	% Diff.	No visible changes
Thermal characteristics			
Vicat diluting temperature VST/B 50*	ISO 306	°C	150
Constancy temperature HDT/A (1,8 N/mm ²)*	ISO 75	°C	135
Temperature of permanent use*	DIN 53446	°C	115
Linear coefficient of cubical thermal expansion (α) 0 - 50 °C	DIN 53752	K ⁻¹	65 x 10 ⁻⁶
Heat conductivity (λ)*	DIN 52612	W/mK	0,21
Specific heat (c)*		J/gK	1,3
Optical characteristics			
Transparency 380-780 nm D = 3 mm	DIN 5036	%	<86
Chamfer angle*	DIN 52305	Bg'	<5
Refractive power*	DIN 52305	dtp	<0,1
Electrical characteristics			
Specific volume resistivity*	DIN VDE 0303	Ω cm	10 ¹⁵
Dielectric strength*	DIN EN 60243	kV/mm	>30
Special characteristics			
Behaviour in fire*	DIN 4102	Fire classification	B 2

*The information applies to the carrier material.