KRD Coatings GmbH



KASIGLAS mar-protect KASI®-PC Flex scratch-resistant coating for PC

Special coating for polycarbonate providing high scratch-resistance and hardness combined with improved climatic and chemical resistance.

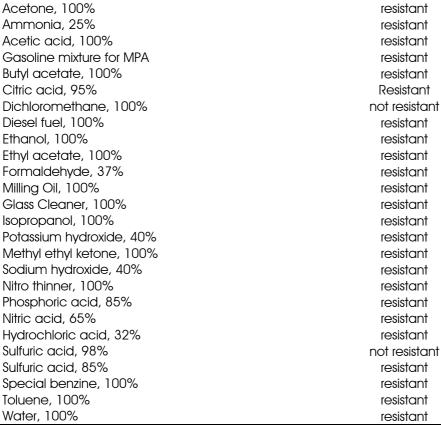
Typical properties

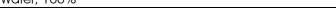
Revision: 06/2013		Standard	KASI®-PC Flex
General properties			
Bulk density	*	ISO 1183	1,2 g/cm ³
Water absorption 24 h, 23°C	*	ISO 62	< 8 mg/kg
Mechanical characteristics			
Tensile strength	*	ISO 527	60 MPa
Elongation at tear	*	ISO 527	110 %
Modulus of elasticity	*	ISO 527	2200 MPa
Impact resistance	*	ISO 179	nicht gebrochen
Abrasion (Taber-process; 500 rotations; CS-10F	-; 500 g)	ISO 9352	≤ 8 % ∆Haze
Thickness of layer		10.0 0 400	$4 - 8 \mu m$
Adhesive properties 0,5/1,0/2,0 h boiling period	od at 95°C	ISO 2409	GT 0/0/0
Thermal characteristics			
Vicat diluting temperature VST/B 50	*	ISO 306	150 °C
Constancy temperature HDT/A			135 °C
(1,8 N/mm²)*		ISO 75	100 0
Temperature of permanent use	*	DIN 53446	115 ℃
Linear coefficient of cubical		DIN 53752	65 x 10 ⁻⁶ K ⁻¹
thermal expansion (α) 0 - 50 °C	*		
Heat conductibility (λ)	*	DIN 52612	0,21 W/mK
Specific heat(c)	*		1,3 J/gK
Optical characteristics Refractive index			1 4405
		DIN 5036	1,4425 > 86 %
Transparency 380-780 nm D = 3 mm	*	DIN 5036 DIN 52305	
Deviation angle Refractive power	*	DIN 52305	≤ 5 Bg' ≤ 0,1 dpt
Reliactive power		DIN 32303	≥ 0,1 upi
Electrical characteristics			
Specific volume resistivity	*	DIN VDE 0303	$10^{15}\Omega$ cm
Dielectric strength	*	DIN EN 60243	> 30 kV/mm
Diologino dilongin		D.11 LIN 00240	> 00 KV/IIIII
Special characteristics			
Behaviour in fire	*	DIN 4102	Fire classification B 2

The information applies to the carrier material.

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Application of 3 – 5 ml liquid, cover, exposure 10 minutes

The information is based on presently available knowledge and experiences. They do not release the processor from own tests and trials. A legally binding assurance of certain characteristics or the suitability for a specific purpose of use cannot be derived from it. Possible patent rights as well as existing laws or provisions must be taken into account by the receiver of our products, who bears the responsibility.

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Polycarbonate Thickness of layer	Smallest Bending radius
3 mm	450 mm
4 mm	600 mm
5 mm	750 mm
6 mm	900 mm
8 mm	1.200 mm
10 mm	1.500 mm
12 mm	1.800 mm

For concrete applications with even smaller radiuses we should be glad to be at your disposal for further consultancy.