KRD Coatings GmbH

KAŠIGLAS[®] KASIGLAS mar-protect KASI®-GL scratch-resistant coating for PMMA

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

Typical properties

Revision: 09/13		Standard	KASI®- GL
General Properties			
Bulk density	*	DIN EN ISO 1183	1,19 g/cm ³
Water absorption 24 h, 23°C	*	DIN EN ISO 62	<30 mg/kg
Mechanical Properties			
Tensile strength	*	DIN EN ISO 527	75 MPa
Elongation at tear	*	DIN EN ISO 527	104,5 %
Modulus of elasticity	*	DIN EN ISO 527	3300 MPa
Impact resistance	*	DIN EN ISO 179	12 kJ/m²
Abrasion (Taber-process; 100 rotations	;;	ISO 9352	<4% Haze
CS-10F; 500 g)			
Thickness of layer			4 – 8 μm
Adhesive properties 0,5/1,0/2,0 h imm	ersion	DIN EN ISO 2409	GT 0/0/0
period at 80°C			
Thermal Properties			
Vicat diluting temperature VST/B 50	*	DIN EN ISO 306	115 °C
Constancy temperature	×	DIN EN ISO 75	100 °C
HDT/A (1,8 N/mm ²)	*		
Temperature of permanent use	*	DIN 53446	80 °C 70 x 10⁻⁴ K⁻¹
Linear coefficient of cubical thermal	^	DIN 53752	70 x 10° K 1
expansion (α) 0 – 50 °C	*		
Heat conductibility (λ)	*	DIN 52612	0,19 W/mK
Specific heat (c)	*		1,47 J/gK
Optical Properties			
Refractive index			1 400 - 00
Transparency 380-780 nm D = 3 mm		DIN 5036	1,429 n _D 20 92 %
Deviation angle	*	DIN 5030 DIN 52305	≤3 Bg′
Refractive power	*	DIN 52305	<0,05 dpt
Kelidelive power		DIN 02000	
Electrical Properties			
Specific volume resistivity	*	DIN VDE 0303	$10^{15}\Omega cm$
Dielectric strength	*	DIN EN 60243	>30 kV/mm
			200 KV/11111
Special Properties			
Fire behaviour	*	DIN 4102	Fire classification B 2
		0117102	

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Chemical Resistance**

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Acetone, 100% resistant Ammonia, 25% resistant Acetic acid, 100% Gasoline mixture for MPA Butyl acetate, 100% Citric acid, 95% Dichloromethane, 100% Diesel fuel, 100% Ethanol, 100% Ethyl acetate, 100% Formaldehyde, 37% Milling Oil, 100% Glass Cleaner, 100% Isopropanol, 100% Potassium hydroxide, 40% Methyl ethyl ketone, 100% Sodium hydroxide, 30% Nitro thinner, 100% Phosphoric acid, 85% Nitric acid, 65% Nitric acid, 50% Hydrochloric acid, 32% Sulfuric acid, 98% Special benzine, 100% Toluene, 100% Water, 100%

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

The information is based on presently available knowledge and experience. They do not release the processor from own tests and trails. 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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