ERIKS

Solutions in Plastics

KASI-GL scratch-resistant coating for PMMA

Special coating for Polymethylmethacrylat providing high scratch-resistance and hardness combined with improvedclimatic and chemical resistance.

Typical properties

Revision: 09/04	Standard	Dimension	KASI®-AS DUR
General properties			
Bulk density	ISO 1183	g/cm³	1,19
Water absorption 24h, 23°C	ISO 62	mg/kg	<30
Mechanical characteristics			
Tensile strength*	ISO 527	MPa	75
Elongation at tear*	ISO 527	%	104,5
Modulus of elasticity*	ISO 527	MPa	3300
Impact resistance*	ISO 179	kJ/m²	12
Extensibility of surface	DIN 53455	%	1,1
Abrasion (Taber-process; 100 rotations; CS-10F; 500 g)	ISO 9352	% Haze	1,1 - 1,5
Thickness of layer		µm	4 - 8
Adhesive properties 0,5/1,0/2,0 h boiling period at 80°C	ISO 2409		
Climatic resistance	4892	% Diff.	0,1
Sand trickle test	DIN 52348		4
Thermal characteristics			
Vicat diluting temperature VST/B 50	ISO 306	°C	115
Constancy temperature HDT/A (1,8 N/mm²)	ISO 75	°C	100
Temperature of permanent use	DIN 53446	°C	80
Linear coefficient of cubical thermal expansion (α) 0 – 50 °C	DIN 53752	K^{-1}	70 x 10^{-6}
Heat conductibility (λ)	DIN 52612	W/mK	0,19
Specific heat (c)		J/gK	1,47
Optical characteristics			
Refractive index	ISO 489	nD20	1,428 (1,492)
Transparency 380-780 nm D = 3 mm	DIN 5036	%	92
Chamfer angle*	DIN 52305	Bg'	<3
Refractive power*	DIN 52305	dtp	<0,05
Electricalcharacteristics			
Specific volume resistivity	DIN VDE 0303	cm	10^{15}
Dielectric strength	DIN EN 60243	kV/mm	>30
Special characteristics			
Behaviour in fire	DIN 4102	Fire classification	B2

*The information applies to the carrier material.