CHEMICAL IMPACT ON MATERIALS

OUTSTANDING CHARACTERISTICS	GRP	PA	PMMA	PC
Glow wire test (IEC 60695)	850 °C	850 °C	650 °C	850 °C
IK Code	IK03	IK07	IK02	IK08
Flammability acc. UL94	HB	HB	HB	V2
UV-resistance	+++	+++	+++	+ + (UV-stabilised)
Aging resistance	+++	+++	+++	++
Transmittance in the visible range		89%	91%	89%
Halogen-free	✔	✔	✔	✔
Silicone-free	✔	✔	✔	✔

CHEMICAL MATERIAL	POLYESTER GRP	POLYAMIDE PA	POLYMETHYL-METHACRYLAT PMMA	POLY - CARBONATE PC	INOX V2A
Acetone	X	•	X	X	•
Accumulators acid	•	•	•	•	•
Alcohol up to 30%	•	•	X	•	•
Amonia 25%	X	•	•	X	•
Petrol	•	•	•	•	•
Benzenel	X	•	X	X	•
Diesel	•	•	•	X	•
Diesel oil, crude oil	•	•	•	X	•
Acetic acid up to 5%	•	•	•	•	•
Acetic acid up to 30%	•	X	X	X	•
Methylethylketone	X	•	X	X	•
Mineral fats	•	•	•	X	•
Vegtable fats	•	•	•	X	•
Animal fats	•	•	•	X	•
Glycerine	•	•	•	X	•
Glycol	•	•	•	•	•
Heating oil	•	•	•	X	•
Potassium Hydroxide 30%	X	•	•	X	•
Lime Milk	•	•	•	•	•
Carbon dioxide	•	•	•	•	•
Carbon monoxide	•	•	•	•	•
Common salt solution	•	•	•	•	•
Sea-water	•	•	•	•	•
Methanol	X	•	X	X	•
Caustic soda solution 2%	•	•	•	X	•
Caustic soda solution 10%	X	•	•	X	•
Regular gasoline	•	•	X	X	•
Nitric acid up to 20%	•	•	•	•	•
Hydrochloric acid up to 20%	•	•	•	•	X
Hydrochloric acid above 20%	•	X	•	X	X
Sulfurous Acid	•	•	•	X	•
Sulphuric acid up to 50%	•	•	•	•	•
Hydrogen Sulfide	•	•	•	•	•
Soap-suds	•	•	•	•	•
Silicone oil	•	•	•	•	•
Sodium Carbonate	•	•	•	•	•
Super gasolin	•	•	X	X	•
Suds	•	•	•	•	•
Turpentine	•	•	•	•	•
Hydrogen Peroxide < 40%	X	•	•	•	•
Hydrogen Peroxide > 40%	X	•	X	X	•
Xylene	X	•	X	X	•

• Resistant X Non-resistant