

Elite CE-K Technical Data

Properties	Test Method	Unit
Mechanical Properties		
(Apparent) Density*	DIN 53479/ISO 1183	g/cm ³
Tensile stress at yield (tensile strength)	DIN 53455/ISO 527	MPa
Elongation at tear	DIN 53455/ISO 527	%
Flexural strength	DIN 53452/ISO 178	MPa
Compressive strength (range of elasticity per Hooke)	DIN 53421 (based on)	MPa
Compressive stress at 30%	DIN 53421 (based on)	MPa
Modulus of elasticity	DIN 53452/ISO 527-2/1A/50	MPa
Impact strength +20°C	DIN 53453/ ISO 179 (based on)	kJ/m ²
0°C	DIN 53453/ ISO 179 (based on)	kJ/m ²
-20°C	DIN 53453/ ISO 179 (based on)	kJ/m ²
Ball indentation hardness (132 N/30 s)	DIN 53456/ ISO 2039-1	MPa
Shore hardness D	DIN 53505	
AV* = average value. Values stated cannot be measured in accordance with the relevant sta		
Thermal properties		
Vicat softening temperatures	DIN 53460/ISO 306 (process A50)	°C
Deflection temperature	DIN 53461/ISO 75 (process A50)	°C
Coefficient of linear thermal expansion α (from -30°C to +50°C)	DIN 53752	mm/mK
Thermal conductivity (from 0°C to 60 °C)	DIN52616 DIN EN 674 (based on)	W/mK W/m ² K
Values not stated cannot be measured in accordance with the relevant standards.		
Electrical Properties		
Surface resistance	DIN VDE 0303 T3/ DIN IEC 93	Ω
Volume resistivity	DIN VDE 0303 T3/ DIN IEC 93	$\Omega \cdot m$
Dielectric strength (sample thickness 4mm)		DIN VDE 0303
Comparative figure of tracking	DIN IEC 112	
Other properties		
Weighted sound reduction index RW1P	DIN 52210/84	dB

Water absorption after 7 days	DIN 53495	%
Fire behaviour	DIN 4102 (D)	
	NFP 92-501 (F)	
	UL 94 (USA)	VO
	Brandkennziffer (fire charac.) (CH)	
	CSE-RF2/75 A (I)	Class 1 (colour c
	CSE-RF3/77 (I)	
Physiological evaluation		-- generally rec
Components used to prevent falls	TRAV**	-

*These are standard values that apply to an average density. **Technical Rules for the Use c

Minor variations are possible depending on sheet thickness.

Permissible colour deviation in accordance with DIN 6174, White ≤ 1.1 CIELAB units.

Tolerances:

Thickness (s): $\pm (0.1 + 0.05 \times s)$

Example at 10mm = ± 0.6 mm

Width: $0 + 2.5$ mm

Length: $0 + 10$ mm

Rectilinearity: max. 1.5mm/m

Angle at saw notch: 0.5°

Levelness: max.

Thickness (mm)	Thickness (mm)	Thickness (mm)
4, 5, 6	8, 10, 13	19, 24, 30
0.65-0.80	0.55-0.60	0.50-0.60
≥ 20	≥ 13	-
≥ 30		-
≥ 30	≥ 20	≥ 20
> 8	> 3	> 3
> 14	> 7	> 7
~ 1100	~ 800	~ 800
AV 15*	AV 20*	AV 25*
AV 13*	AV 15*	AV 20*
AV 10*	AV 10*	AV 15*
≥ 15	≥ 12	≥ 25
~ 55	~ 75	~ 77
standards.		
≥ 75	≥ 75	77
~ 56	~ 63	-
≤ 0.08	≤ 0.08	≤ 0.08
10 ¹⁴	10 ¹⁴	10 ¹⁴
10 ¹⁵	10 ¹⁵	10 ¹⁵
T21	Kv/mm	≥ 12
CTI 600	CTI 600	CTI 600

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< 0.2 appr. 0.2 appr. 0.2
B 1 (colour 654, thicknesses 4, 5, 6, 10mm)
M 1 (colour 654, thicknesses 4, 5, 6, 10mm)
VO (10mm)
5.3 5.3 5.3
554, thicknesses 4, 5, 6, 10mm)

ognised as safe --
- Category C
 requirements met
of Safety Glazing.

.1.5mm/m