

Casting Compounds

for electronics, sensor technology and lighting electronics

Resin base	Operating temperature range [°C]	Colour, transparency (t)	Viscosity of mixture at 20 °C [mPas]* ISO 3219	Shore hardness ISO 48-4		for LED technology	UL approval	ELPECAST® Product name
				Shore A (soft)	Shore D (hard)			
Polyurethane (UR)		⊗ OPAL t	900-1300	70		⚡	UL	VT 3402 KK
		○ t	750		40			VT 3407
		● ○	2300 3000	80				VU 4444/31 SB-WB
		●	1400	75				VU 4451/51 SB
		● ●	1500 3000	55-60				VU 4452
		●	2500		65		UL	VU 4452/41 SV-HF
		● ● ● ●	1000 - 4000	12000, 60000	50-60			VU 4453
		● ● ●	1050-2500			40-60		VU 4457
		●	1600			65	UL	VU 4459/41 SV-HF
Epoxy (ER)		● t	1400		75			VT 3000
		● ●	1800 1600 3500 6500		80-85			VU 4085
Silicone (SR)		⊗ t	2100	35		⚡		VT 3602 KK
		●		35				VU 4675
		● ●		65				VU 4691 E
		○	4000	40				VU 4694 E

* Comparative viscosity in mPas at 20 °C: water: 1, olive oil: 100, tomato juice: 2000, honey: 10000, jam: 50000

VT = casting compounds, transparent

E = elastic

SB = hardly flammable

WR = water-resistant

/31 = mixing ratio 3:1

VU = casting compounds, opaque

HF = halogen-free

SV = self-extinguishing

KK = crystal-clear

WB = weather proof