

APPLICATION

Two-component transparent polyurethane system, used for **led encapsulation**, thanks to its high light transmission. Good electrical insulation.

RESIN:

HARDENER:

SEPUR -E 540 RT

DK 100 HV

Ratio byW

99±1

100

DESCRIPTION

By direct casting @ RT and pressure, after degassing cycle for both components. A DEMAK dosing/mixing equipment is recommended.

Ratio byV

100

100

LED ENCAPSULATION

PROCESSING

Main advantage of this System is to have a complete curing, in some hours @ Room Temperature, not with standing its initial slow reactivity. The final cured polymer shows a VERY SOFT elastic behaviour. Good chemical and outdoor resistance

MAIN PROPERTIES

System compliance	REGULATION (EU) 2017/852 OF THE EUROPEAN PARLIAMENT REACH, RoHS and ELV European DIRECTIVES
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	SEPUR -E 540 RT	DK 100 HV	Unit	Test Method/Condition
Storage Stability (15-25°C)	12	12	Months	Storage for sealed drums with original white cups safe closure
Color	Transparent	Transparent	/	/
Specific Gravity at 23°C	1,06	1,075		
Brookfield Viscosity at 23°C	250-550	200-450	mPas	Internal Method
Initial mixture Viscosity	300-400		mPas	Internal Method
Gel time at 25°C - 20g	35-45		min	
Pot life at 25°C - 30g - double initial viscosity	7		min	DIN 16945-16916
Pot life at 25°C -machine alarm	120		sec	
Surface Tack free - removable	2-3		Hours	at 23°-25 °C 40% R.H.
Final Curing	10-12		Hours	at 23°-25 °C 40% R.H.
Hardness at 23°C	22-28		Shore D	ASTM D 2240
	70 - 75		Shore A	ASTM D 2240
Glass Transition	15-18		°C	ASTM D 3418
Water absorption - 24h at 25°C	0,3		%	ISO R117
Thermal Conductivity	0,2		W/M°K	ISO 220007-2
Operating Temperature	- 40°C / + 90 °C		Thermal Class 90°C(Y)	
Flammability	HB (5 mm) Listed		rating	UL 94

2017

The data highlighted in grey are parameters systematically verified for each production batch. All above mentioned information are based on results gained from experience and re believed to be accurate but are given without acceptance of liability for application and characteristics of finished products, depending on technology and working methods of final