

## Casting resins for the optoelectronics

### Transparent casting resins PUR (UV resistant)

These transparent polyurethane casting resins have been specially developed for light and solar energy applications. These robust polyurethanes are extremely suitable for outdoor applications.

They also have an application in the transparent encapsulation of electronics.



#### Special characteristics

- Completely transparent
- 100% UV stable, no ageing and yellowing through sunlight
- Weather and wind resistant
- Resistant to chlorine and salt water
- Electrically insulating
- As strong as bullet-proof



Because of their chemical, mechanical or optical characteristics, the resins can be specially adjusted:

- as hard as concrete or as flexible as rubber
- pigmented and/or phosphorescent
- flame-retarding
- tarnished to scatter the light



#### Applications

- Reflectors and LED lamps
- Flexible LED profiles/lighting strips
- Indication lamps, information boards, automobile lighting
- DRM (Dynamic Road Marking) applications
- Swimming pool lighting
- Large area „illuminated floors“
- Encapsulation of electronics



Linear LED Light

## Casting resins serie PUR 400 transparent

### Applications



Stairs with Linear LED Light



Linear LED Light

		GHPUR435		GHPUR438		GHPUR 439		GHPUR480		GHPUR540		GHPUR550	
Properties	Unit												
Mixing ratio		100 : 150		100 : 175		100 : 185		100 : 100		100 : 120		100 : 120	
A-component													
Density	g/cm <sup>3</sup>	1.10		1.10		1.10		1.10		1.17		1.17	
Viscosity	mPas	1000		1500		2000		320		800		800	
Colour		transparent		transparent		transparent		transparent		transparent		transparent	
B-component													
Name		PUR G	PUR N	PUR G	PUR N	PUR G	PUR N	PUR G	PUR N	PUR G	PUR N	PUR G	PUR N
Density	g/cm <sup>3</sup>	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	
Viscosity	mPas	800	280	800	280	800	280	800	280	800	280	800	200
Colour		transparent		transparent		transparent		transparent		transparent		transparent	
Initial viscosity	mPas	900	550	1200	800	1600	900	600	300	900	260	800	200
Gel time	min.	30	30	45	45	45	45	30	30	60	60	60	60
Curing time	h	2	2	1	1.5	1.5	1.5	2	2	1.5	2	1.5	1,5
Hardness	A/D	D50	D 45	D75	D 50	D80	D 55	A80 D30	A60 D 25	D 50	D50	D 50	D40
Special properties		UV-stable		UV-stable		UV-stable		UV-stable		flame retardant VO according to INT-VVT 001		flame retardant VO according to INT-VVT 001	
Application		Optoelectronics		Optoelectronics		Optoelectronics		Opto-lectronics		Optoelectronic		Optoelectronics	

### Sales Units

Item number A-component	Mixing ratio	Sales unit [l]	Item number B-component	Sales Unit [l]
<b>GHPUR435/05000</b>	100 : 150	5		
<b>GHPUR438/05000</b>	100 : 175	5		
<b>GHPUR439/05000</b>	100 : 185	5		
<b>GHPUR480/05000</b>	100 : 100	5		
<b>GHPUR540/05000</b>	100 : 120	5		
<b>GHPUR550/05000</b>	100 : 120	5		

### Processing instructions and frequently asked questions to transparent PUR resins

The processing instructions and answers to frequently asked questions in connection with the encapsulation of transparent PUR resins can be asked for

### Chemical compatibility of transparent PUR resins

We will gladly give you detailed information regarding this. Please contact us.