

PUre Transparency ST 44/30

- 2-components polyurethane casting resin
- solvent-free system
- crystal clear and UV-resistant
- transmission values over 90 %
- semi-hard curing degree
- excellent adhesive properties
- ideal for LED applications
- **TIP: good combination possibilities with kisling's opaque and thermal conductive casting resins**

✓ The casting resin is used with **PUre Hardener 3000**

✓ Product name explanations:

PUre Transparency = product line
ST 44 = product name
/30 = potlife configuration in min

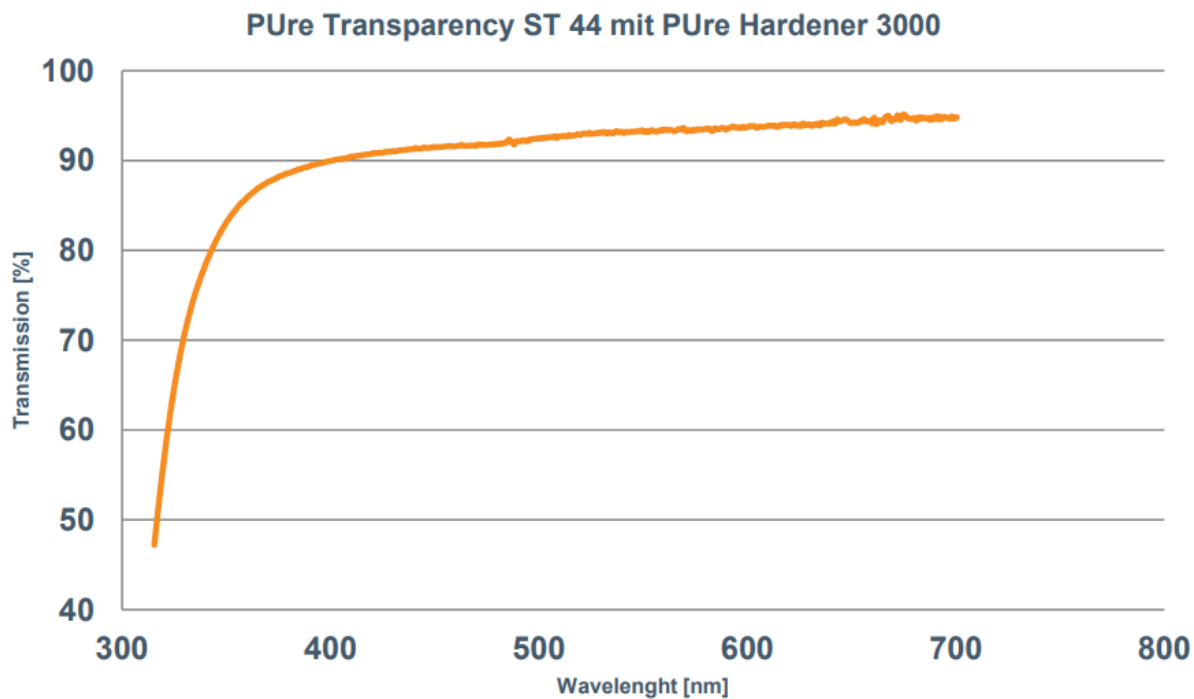
Product specification:

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|------------------------------|---|
| Operating temperature: | -40°C up to +130°C no affect of the physical properties |
| | -40°C up to + 90°C no affect of the optical properties |
| Flammability classification: | |
| Mixing ratio: | 100 parts PUre Transparency ST 44/30 100 parts PUre Hardener 3000 |
| Viscosity (22°C): | resin: PUre Transparency ST 44/30 850 - 950 mPa*s hardener: PUre Hardener 3000 450 - 750 mPa*s mixing viscosity 650 - 850 mPa*s |
| Density (22°C): | resin: PUre Transparency ST 44/30 1,05 - 1,10 g/cm ³ hardener: PUre Hardener 3000 1,10 - 1,15 g/cm ³ |
| Colour: | crystal clear |
| Potlife: | 30 - 45 minutes The curing time depends on the thickness of the layer, the casting volume and the temperature. |
| Curing time (22°C): | 16 - 30 hours |
| Final hardness | 10 - 14 days |

Physical properties:

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|-------------------------------|----------------------------|------------------------|
| Shore-Hardness: | A 58 - 68 | ISO 868, DIN 53505 |
| Thermal conductivity: | 0,2 W/m*K | DIN EN ISO 22007 |
| Glass transition temperature: | -2,1°C | TMA |
| Coefficient of expansion: | 135,3 ppm/K 199,5 ppm/K | < Tg, TMA > Tg, TMA |
| Shrinkage after curing: | <1 % | |
| Water absorption: | 0,2 % (30 days at 23°C) | |
| Insulation class: | B | IEC 60085 |

Transmission values:



measured in a layer thickness of 8 mm

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|-------------|--|
| Shelf life: | 6 months in sealed original containers when stored in dry conditions (15°C to 25°C). |
| Packaging: | Resin and hardener are offered in separate packaging units. |
| RoHS: | We hereby certify that all products are unexceptional RoHS conform according to the EU-directive 2011/65/EG (RoHS2) and the amendment of Directive 2015/863. |