



We create chemistry



Ultracur3D RG 35

BASF Reactive Urethane Photopolymer
for Rigid Applications

Ultracur3D RG 35 (Rigid product line) is a medium-viscous, highly reactive photopolymer for stereolithography applications resulting in rigid multipurpose parts. It can be used to produce high performance functional parts by using stereolithography (SLA), digital light processing (DLP) or Liquid Crystal Display (LCD) machines. Parts produced with this resin show no water uptake.

Example Applications



Performance
prototypes



Functional
end-use parts



Fluid flow models



Snapper



Air Duct

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| Material Properties | Norm | Typical values |
|-------------------------------|----------------------|----------------|
| Tensile | | |
| E modulus | ASTM D638 | 1990 MPa |
| Tensile Strength | | 49 MPa |
| Elongation @ break | | 3 % |
| Flexural | | |
| Flexural Modulus | ASTM D790 | 2330 MPa |
| Flexural Strength @ 5% Strain | | 108 MPa |
| Impact | | |
| Notched Izod 23 °C | ASTM D256 | 18 J/m |
| Thermal | | |
| HDT @ 0.45 | ASTM D648 | 61 °C |
| HDT @ 1.82 | | 51 °C |
| Hardness | | |
| Shore D | ASTM D2240 | 80 |
| General | | |
| Viscosity @ 23 °C | Cone/plate rheometer | 1090 mPas |
| Viscosity @ 30 °C | | 613 mPas |
| Viscosity @ 50 °C | | 164 mPas |

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High accuracy



No water uptake



Low shrinkage