



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