



## Mech<sup>T</sup> E35A Dispersion for UV-Curable 3D-Printing Resins

New Mech<sup>T</sup> E35A is a stable dispersion of Mech<sup>T</sup> discrete functionalized carbon nanotubes in Dymax's BR-952 urethane dimethacrylate (UDMA). Mech<sup>T</sup> E35A can be used in rigid, high tensile strength SLA, DLP, or jettable 3D-printing resins to provide conductivity and decreased resistivity. When compared to FDM-printed ESD parts, ESD resins produced with Mech<sup>T</sup> E35A can achieve fully isotropic conductivity with high resolution and isotropic mechanical properties. [Get data sheet...](#)



### BR-1043MB Flexible, Bio-Based Oligomer

Ideal for impact-resistant coatings, nail coatings, and flexible 3D-printing resins. [BR-1043MB](#) is a polyether urethane methacrylate with the majority of its contents being bio-based. The bio-based backbone of this oligomer provides low irritancy characteristics making it an optimal candidate for consumer applications. The low temperature flexibility, elasticity, and high rebound of BR-1043MB provide excellent properties to formulations.

[Learn More](#)



### Developing Improved Photopolymer-Based 3D-Printing Materials

In the last decade, the advancement of 3D printing has opened up endless possibilities in regards to prototyping and rapid manufacturing. Dymax O&C has been at the forefront of that advancement, working to develop oligomers that would allow photopolymer-based 3D printing to match the capabilities of extrusion-based 3D printing. In this infographic, we discuss the research and development our team has been doing in this area.

[View Infographic](#)



### BR-952 Urethane Methacrylate

Ideal for nail gels and 3D-printing resins. [BR-952](#) is an aliphatic urethane dimethacrylate with a low viscosity, making it ideal for use in coating applications in the nail care and 3D-printing industries. Properties include high gloss and toughness and its low viscosity meets many 3D-printing application requirements. BR-952 can also be used in coatings for construction applications, where improved toughness and excellent durability is desired.

[Find Out More](#)



### White Paper: Molecular Oxygen – Friend or Foe

Ambient oxygen is required to prevent spontaneous polymerization of UV-curable formulations stabilized with phenolic antioxidants like MEHQ, BHT (ionol), Irganox1010, etc. So, oxygen is “a friend” in this case. However, the same ambient oxygen becomes “a foe” inhibiting UV-cure itself. This white paper discusses the use of ambient oxygen as both a friend and a foe.

[Download White Paper](#)

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