DYMAX

Oligomers with Low Ash Content Help Achieve Higher Resolutions in 3D Printing Applications

"Ash", or impurities leftover after a sample decomposes at high temperatures, can be undesirable in applications such as 3D-printed jewelry and ceramic 3D printing. These applications depend on low ash content to achieve parts with finer detail and higher resolution. Our experts recently studied ash content across various 3D-printing oligomers using thermogravimetric analysis (TGA). The data in this study provides information about the impurities, or leftover organic material, in a product after it has been completely burned. Learn more about these applications and how they are affected by ash in our new ash content study.

BR-3641AJ for Pressure Sensitive Adhesives

Pressure sensitive adhesives (PSAs) require excellent adhesion properties. BR-3641AJ is an aliphatic polyether urethane acrylate that exhibits tenacious adhesion along with optical clarity, non-yellowing, and enhanced weatherability. Due to its elastomeric and tacky characteristics, BR-3641AJ can be utilized as an adhesion promoter and/or reactive tackifier in film formulations.

Learn More

NEW! Flexible Bio-Based Oligomer

BR-1043MB is a polyether urethane methacrylate primarily made up of bio-based materials. 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 nail coatings, flexible 3D printing resins, and impact-resistant coatings.

Get Data Sheet

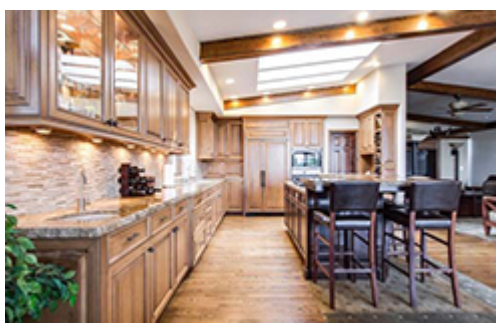
New Bulletin Discusses How to Achieve Desired Nail Coating Properties

With the exception of some innovative nail products, in general most UV/LED-curable nail coatings can be categorized into one of three groups: hard gels, soak-off gels, and gel polish. Each type of nail coating has specific requirements to ensure that the coating will perform as desired. Our latest technology bulletin discusses the ideal properties of each category and explores how to achieve them. Read technology bulletin now...

BR-543 Provides High Weatherability

Weatherability is a highly desired characteristic of many coating formulas. It provides that a product will be resistant to the various conditions it may encounter. BR-543 is a difunctional, aliphatic polyether urethane acrylate that exhibits superior physical and weathering capabilities for use in foil coatings, optical coatings on polycarbonate, and weather-resistant coatings. Properties of BR-543 include enhanced flexibility, abrasion resistance, and oil and chemical resistance, providing high weatherability to coating formulations.

See More Characteristics



BR-144B for Furniture and Wood Floor Coatings

Furniture and wood flooring require reliable abrasion resistance and increased weatherability to withstand every day wear and tear. BR-144B is an aliphatic polyether urethane acrylate oligomer that exhibits excellent solvent and abrasion resistance combined with high gloss, making it a good candidate for oligomers used in wood floor and furniture coatings. Other characteristics include non-yellowing, rapid cure speed, and hydrolytic stability. These characteristics contribute to enhanced weatherability and protection under several conditions.

Find Out More