

TECHNICAL DATA SHEET

SARBIO 7107 US

Epoxidized Soy Bean Oil Acrylate

DESCRIPTION

SARBIO® 7107 is a pentafunctional, acrylated vegetable oil oligomer that offers pigment wetting characteristics and produces flexible, well-adhering cured films.



Biobased feedstock



SHELF LIFE

Store in the original, closed container in a dry, cool (<45°C) and well-ventilated place. Keep away from frost and heat (open flames, hot surfaces and sources of ignition) sources. Typical shelf-life is 6 months from delivery date for unopened containers. In cases where product sampling is required to carry out incoming quality tests, shelf-life should be maintained beyond opening, provided that it is tightly closed immediately after and that contamination with foreign bodies is avoided. Inhibitors have been added to enhance storage stability. They require the presence of air in the container in order to improve their efficiency. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers

STORAGE

See SDS for Storage Considerations

HEALTH AND SAFETY

See SDS for Health & Safety Considerations

LIQUID PROPERTIES

| | |
|----------------------------------|--------------|
| Appearance | Clear liquid |
| Total Bio content (%) | 85 |
| Viscosity at 25°C (mPa.s or cPs) | 26000 |
| Density at 25°C (g/mL) | 1.0481 |
| Refractive Index at 25°C | 1.479 |
| Functionality | 5 |
| Color (Gd) | 4 |

CURED PROPERTIES

| | |
|-------------------------|----|
| Tg (°C), by DSC | 30 |
| Young Modulus (MPa) | 48 |
| Elongation at break (%) | 13 |
| Tensile Strength (MPa) | 6 |

PRODUCT PERFORMANCE

Shrinkage
 Moisture Resistance
 Corrosion Resistance
 Flexibility
 Wood Adhesion
 ABS/PC Adhesion
 Metal Adhesion
 PVC/PS Adhesion
 Pigment Wetting
 Chemical Resistance
 PE/PET/PP/PMMA Adhesion

SUGGESTED APPLICATIONS

3D printing
 Adhesives & sealants
 Conformal coatings
 Electronics
 Flexographic inks
 Inkjet inks
 Metal coatings
 Offset inks
 Overprint varnishes
 Screen inks
 Wood coatings