

TECHNICAL DATA SHEET

SARBIO® 7405

Aliphatic urethane acrylate

DESCRIPTION

SARBIO® 7405 is a urethane acrylate toughening oligomer that brings an excellent balance between hardness and flexibility. It has excellent resistance to polar solvents and has good water, acid, and base resistance. This product can be made with no intentionally added tin.



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 (%)	50
Density at 25°C (g/mL)	1.019
Refractive Index at 25°C	1.492
Functionality	2

CURED PROPERTIES

Tg (°C), by DSC	8
Young Modulus (MPa)	189
Elongation at break (%)	137
Tensile Strength (MPa)	21

PRODUCT PERFORMANCE

Shrinkage
Flexibility
Wood Adhesion
ABS/PC Adhesion
Metal Adhesion
PVC/PS Adhesion
Weatherability
PE/PET/PP/PMMA Adhesion
Moisture Resistance

SPECIAL FEATURE

Tough

SUGGESTED APPLICATIONS

3D printing
Electronics
Flexographic inks
Inkjet inks
Metal coatings
Offset inks
Overprint varnishes

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