

Lucite® 6751 for Casting & Embedment

Lucite® 6751 is a high molecular weight methyl methacrylate homopolymer for use in high quality castings & embedments. Lucite® 6751 is the most optically clear of the Lucite® grades.

Performance Features and Key Benefits

Like all Lucite® Acrylic Resins for castings & embedments, Lucite® 6751 offers:

- Exceptional gloss
- Very high surface abrasion resistance and hardness
- Sparkle
- Crystal Clarity
- Outstanding Ultraviolet Light Resistance
- Excellent Resistance to Water, Alcohol, Dilute Acids and Alkalis, Chemical Fumes and Corrosive and Oxidizing Environments

Lucite International, Inc. Lucite® resins production process results in pure product to enable castings and embedments to be manufactured with exceptional optical clarity and sparkle.

Typical Properties^a

Appearance:	beads
Rockwell Hardness (M Scale):	81
% Luminance Transmittance (0.125, 3.2mm):	92
Tensile Strength @ 23°C and 50% RH (MPa)	54

- a) *Properties as indicated are for information only and are not to be taken as guarantee of product specifications.*

Manufacturer's Release Specifications^b

% Moisture (maximum)	0.75
% Sifting Test ^c	>40
Brookfield Viscosity (cps) @ 15% in toluene	200 – 500
Particle Size D50 (µm) Microtrac®	70 – 105
% Over 700 µm Microtrac®	0 – 1
Heat Mold Appearance ^d	PASS

- b) *Manufacturer's release specifications are subject to change without notice. Please contact Lucite International, Inc. for the latest information.*
- c) *Sieve with 100 mesh for 5 min, % pass mesh*
- d) *Compression molded with 50g bead. The number of foreign matters over 0.05 mm³ size must be 0 to pass (indicated by "PASS").*

Storage & Handling

Lucite® 6751 should be stored in a cool, dry place away from heat sources. If possible, do not store at or above the glass transition temperature as resin blocking can occur. If a resin block is formed, extra time and care must be taken to break up the mass for use. Please consult the Material Safety Data Sheet for additional safety information.

COMPLIANCE WITH FDA REGULATIONS

Lucite International confirms Lucite® 6751 complies with the compositional requirements of the following United States of America's Food and Drug Administration (FDA) regulations.

1. FDA 21 CFR 175.105 for adhesives used as components of articles intended for use in the packaging, transporting, or holding food.

2. FDA 21 CFR 175.300 in resinous and polymeric coatings used as the food contact surface of articles intended for use in producing, packing, processing, preparing, treating, packaging, transporting, or holding food. The coating in its finished form in which it is to contact food is subject to a restriction on its chloroform soluble extractives.

Compliance with the limitation on extractives can only be demonstrated by tests carried out in the final article.

3. FDA 21 CFR 175.320 in resinous and polymeric coatings for polyolefin films, provided it is intended for repeated food contact use as specified in FDA 21 CFR 175.300(a). The coating in its finished form in which it is to contact food is subject to a restriction on its chloroform soluble extractives.

Compliance with the limitation on extractives can only be demonstrated by tests carried out in the final article.

4. FDA CFR 176.170 as a component of the uncoated or coated food contact surface of paper and paperboard intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting or holding aqueous and fatty foods.

5. FDA 21 CFR 176.180 as a component of the uncoated or coated food contact surface of paper and paperboard intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding dry food.

6. FDA 21 CFR 177.1010 as semi-rigid and rigid acrylic plastics articles intended for use in contact with food.

This product is limited to use only in plastic articles intended for repeated use in contact with food. The semi-rigid and rigid acrylic plastics in the finished form in which they are to contact food are subject to limitation on extractives.

Compliance with the limitation on extractives can only be demonstrated by tests carried out on the final article.

This statement of compliance is correct at the date of issue.

As food contact regulations and product formulations are subject to change, it is the user's responsibility to ensure that they are in possession of a current statement of compliance.

Information contained in this publication (and otherwise supplied to users) is based on our general experience and is given in good faith, but we are unable to guarantee its accuracy or to accept responsibility in respect of factors outside our knowledge or control.

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