Lucite® 47GS

Acrylic Resin for Glass Separation

Improper storage and transport of glass products (e.g. flat glass or fabricated items) can lead to costly damage caused by glass-to-glass abrasion and / or corrosion rendering it unsuitable for end-use. Lucite® resins in combination with adipic acid provides excellent protection of glass during storage and shipment.

Action of Adipic Acid

Lucite® interleavant is not normally used alone. Corrosion can occur from moisture condensation during transport and storage. Moisture between the glass can cause leaching of sodium ions to be leached from the glass surface, which can increase the pH of the glass causing corrosion. To prevent the increase in pH, an acid compound is blended with the Lucite® to buffer the system.

Blend Benefits

The blend of acid with Lucite® resins provides the following benefits:

- Minimizes glass-to-glass abrasion/scratching
- Minimizes glass corrosion when blended with adipic acid
- Physical separator to ease glass handling
- Highly resilient (can withstand 10^6 psi / $inch^2$ for >1h)
- Inert, non-hazardous
- Cost effective (typical loading 300-500 mg/m^2)
- Perfectly suited for automated glass handling / processing
- Easy to apply (e.g. manually or electrostatic on-line applicator)
- Easy to remove (e.g. aqueous wash)

Typical Properties[a]	
Appearance	Solid bead
Specific Gravity, 25°C	1.18
Refractive index, n_D	1.491
Luminous transmittance (0.125 in / 0.3 mm)%	92
Elongation at break (23°C / 73°F, 50% R.H.)%	4
Moisture absorption (24h) %	0.30
Hardness (Rockwell)	M95
Tensile strength (23°C / 73°F, 50% R.H.)	
MPa	73
Psi	10,400

a) *Typical physical properties listed are approximate values and should not be considered manufacturer's release specifications. Manufacturer's release specifications are subject to change without notice, please contact your Lucite® representative for the latest product specification details.*

Storage & Handling

Lucite® 47GS 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 Safety Data Sheet for additional safety information.

For further information or samples, please contact your local distributor, or:

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