GLAS-LOK®

THERMOPLASTIC COATINGS

GLAS-LOK® is formulated as a functionalized polyethylene copolymer that specializes in enhancing the adhesion of glass, thereby improving mechanical resistance in fragile products. It can be applied by fluidized bed or electrostatic spray. GLAS-LOK powders are available in transparent colors, and are an ideal coating solution for many applications, including fluorescent light bulbs, reagent bottles, and high-end chandeliers.

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OVERVIEW

Glass Protection Thermoplastic Coatings.

GLAS-LOK is a functionalized polyethylene copolymer thermoplastic powder coating explicitly designed for glassware, lighting, and ceramic products. GLAS-LOK powders surround the substrate in a durable protective plastic coating, reducing the risk of glass, lighting, or ceramics shattering upon impact.

MAIN FEATURES

- **Functional –** Designed to deliver reliable, high-performance protection for glass surfaces in demanding environments.
- **Extremely Clear –** Offers outstanding optical clarity, maintaining the original transparency of the glass.
- **Excellent Impact and Flexibility –** Absorbs shocks and resists cracking, ensuring durability without compromising flexibility.
- **Excellent UV and Chemical Resistance –** Shields glass from yellowing, degradation, and surface damage caused by sunlight and harsh chemicals.

TYPICAL APPLICATIONS

- **Safety and Security Glass** – Protective shields, security barriers, transaction windows
- **Lab Glassware** – Beakers, flasks, test tubes, petri dishes, chemical bottles
- **Light Bulbs** – Bulb housings, lamp globes, industrial light covers, chandeliers

TECHNICAL PROPERTIES

Essential technical details are outlined below. Full Technical Data Sheet (TDS) available upon request.

GRADE		Fluidized bed, electrostatic spray
SPECIFIC GRAVITY	ASTM D792	0.943 g/cm3
ADHESION	ASTM D4541	>1,527 PSI (10.7MPa)
HARDNESS SHORE D	ASTM D2240	44 ± 2
IMPACT RESISTANCE	ASTM D2794	>384 in./Lbs. (43 Joules)
TENSILE STRENGTH	ASTM G638	2207 PSI (15.2MPa)
ELONGATION (%)	ASTM D638	515%
QUV	ASTM G53	2,000 hours, no yellowing or change in gloss
TABER ABRASION FLEXIBILITY	ASTM D4060	61 mg loss, CS 17 wheel
DIELECTRIC BREAKDOWN		893V/mil (387 kV/cm) @ 20 mils (508 micron)

FORMULATING THE RIGHT MIX.

Since 1976, the Protech Group has been developing and manufacturing coatings, paints, and specialty materials. Through quality and innovation, we formulate the right mix to protect and enhance what matters most to our customers. Protech Group products are manufactured in more than 20 sites worldwide. We serve our customers in countless markets and industries, including construction, infrastructure, transportation, consumer goods, and healthcare.

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