



Glas-Lok® GLS

General Description

A functionalized polyethylene copolymer based thermoplastic powder coating designed specifically for glass coating applications that require UV-stabilization.

Application & Surface Preparation

Mechanical Preparation

(SSPC-SP6) 2-3 mil (50-75µm) anchor profile using clean, sharp edged blast media

NOTE: Properly preparing parts before powder coating is essential for a quality finish. This includes cleaning, rinsing, drying and insuring that the substrate surface is free and clear of any contaminants.

Fluidized Bed

For fluidized-bed dipping, preheat parts to 400° F (205°C) adjusting for part thickness. Dip parts in fluidized-bed of Glas-Lok® for 4-6 seconds. Carefully remove excess powder. For improved surface finish, if necessary, parts may be post-baked for a short period of time.

Electrostatic Deposition

For electrostatic deposition, preheat parts to 400° F. Deposit Glas-Lok® 8-12 mils thick. For improved surface finish (if necessary), parts may be post-baked for a short period of time.

No Cure Time

Thermoplastic powder coatings need only be heated enough to flow out the coating, nothing more. Overheating may cause degradation or embrittlement of the coating. Coating may be put into service when cooled.

Powder Properties	
Coverage (100% efficiency)	25.65 sq. feet per pound @ 8 mils (5.24 m ² per kg @ 203µm)
Particle Size	Available in fluid bed & spray grades
VOC Content	ZERO
Thickness (Recommended)	8 – 10 mils (203 – 254µm)
Storage Stability	Store in dry area below 90° F (32°C), keep container closed with liners sealed and out of direct sunlight and any moisture or external contaminants. Always use good manufacturing practices.

Performance Properties		
Specific Gravity	ASTM D 792	0.943 g/cm ³
Adhesion	ASTM D 4541	>1,527 PSI (10.7MPa)
Hardness	ASTM D 2240	50
Impact Resistance	ASTM B 2794	>384 in./Lbs. (43 Joules)
Tensile Strength	ASTM D 638	2207 PSI (15.2MPa)
Elongation (%)	ASTM D 638	305%
QUV	ASTM G 53	2,000 hours, no significant change in color or gloss
Taber Abrasion	ASTM D 4060	61 mg loss, CS 17 wheel
Flexibility (Conical Mandrel Bend)	ASTM D 522	1/8 in (3.2mm), no cracks (>32%)
Melt Index	ASTM D 1238	32

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Version 0308