

MANUAL DEFINITION:

This Technical Data Package outlines properties and testing of Lyll's Polyester Powder Coating. All test data included in this Technical Data Package has been compiled from Manufacturers testing and tests performed by the R.W. Lyll & Company, Inc. Laboratory.

1.0 Product Description

Lyll currently uses **DuPont ALESTA® TGIC Polyester powder coating**. This coating offers excellent weather and UV resistance, high mechanical properties, a smooth finish, excellent coverage, and aesthetic appeal. This is an exceptional coating for above ground applications for corrosion resistance. The standard color is gray (10 BG 4.9/0.6 in accordance with the Munsell Renotation System, commonly referred to as ASA #49 or ANSI #49.)

2.0 Surface Preparation

Depending on the type of item being coated, these items are processed either through a multistage chemical pretreatment cleaning system, or an abrasive blasting process.

3.0 Powder Coating Process

After surface preparation, the items are powder coated using an electrostatic coating process. They are then post cured in an industrial oven at a controlled temperature and time resulting in a high-quality finish with excellent adhesion to the surface of the steel and/or cast iron components.

Note: This polyester coating can be applied to steel, cast iron, or zinc plated surfaces.

3.0 Test Results

POLYESTER TGIC POWDER COATING	
TEST	RESULTS
<i>Thickness as Tested</i>	2.5-3.0 mils
<i>Gloss @ 60°(ASTM D 523)</i>	40-49
<i>Adhesion, Cross Hatch (ASTM 3359)</i>	5B
<i>Flexibility, Mandrel Bend (ASTM D 522)</i>	1/4 in. dia., no fracture
<i>Impact test ASTM D 2794</i>	20 in/lbs
<i>Pencil Hardness (ASTM D 3363)</i>	H-2H
<i>Salt Spray Resistance (ASTM B 117) 1/16" max under-film corrosion</i>	1,000 hrs



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