
TDS TECHNICAL DATA SHEET

Good Life Innovations Ltd - +44 (0) 207 118 3123 – sales@goodlifeinnovations.com

Applications: Used as a decorative additive in automotive paints, powder coating processes, clear and color coatings for consumer items and packaging, hot and cold molded plastic items, printing inks for paper and fabric appliqué.

Holographic pigments can be used for applications that require high temperature processing or long-term immersion durability in solvents and resins. Holographic pigments are stable in applications up to 170°C, and suitable for use in most commonly used solvents.

Product Description: The pigment base substrate is ½ mil (12µ), ultra-clear polyester film that is embossed and vacuum-metallized to an optical density of 2.0 to 2.5 o.d.u. A clear or tinted epoxy coating is then applied to protect the embossed holographic groove to metal bond, and enable the film to be cut into small particles. The 1.0 mil (23µ) base substrate versions are also available.

Standard particle shapes & sizes (Sizes are measured across particle face):

- 0.002” (50µ) square
- 0.002 x 0.004” (50µ x 100µ) rectangular
- 0.004” (100µ) square
- 0.008” (200µ) hexagonal

Standard pigment colors:

- Silver (no color additives)
- Pewter (no color additives)
- Copper (contains FD&C Red No 40 Aluminum Lake)
- Gold (contains FD&C Yellow No5 Aluminum Lake & FD&C Red No40 Aluminum Lake)

Quality Control

Every batch is tested and certified for the following:

Particle Size (analyzed by Coulter LS Particle Size Analyzer, particle size and thickness),
Optical Appearance (visual inspection by microscope, examination of fabrication, cut, color quality, visual defects, imperfections, contaminants, impurities, smooth edges), and
Color Quality (exact match to color standard side by side).

Name of the Component	CAS RN	21CFR Part __*
POLY(ETHYLENE TEREPHTHALATE)	025038-59-9	175.105 175.300 175.320 177.1630 177.2260 177.2800 179.45 178.1005 177.1390 177.1850 177.2420
ALUMINUM	007429-90-5	178.3297 175.105 176.170 176.200 177.1200 177.2260 73.1645 73.2645 175.300
FD&C YELLOW NO. 5, ALUMINUM LAKE	012225-21-7	74.1705 176.180 82.705
FD&C RED NO. 40, ALUMINUM LAKE	068583-95-9	74.340 74.2340 176.180

STATEMENT OF PRACTICAL USE: This product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.