

Powder Coating Data Sheet

Polyester Urethanes

Description

Polyester Urethane powder coatings are the most flexible powder coatings manufactured. These coatings are outdoor durable and maintain excellent mechanical properties. Urethanes can also be formulated to nearly any gloss, and can be formulated to have outstanding chemical properties and graffiti resistance. Overbake properties are generally excellent.

Applications

Typical uses for polyester urethane products include automotive trim parts, garden fixtures and equipment, sporting goods, exterior furniture, and farm implements.

Properties noted below are based on typical powder coatings, applied on Bonderite CRS panels

Powder Properties

Cure Schedule	12' to 20' at 375°F metal temperature
Storage Stability	Excellent - 6 months minimum at less than 25C
Specific Gravity (calculated)	1.2 to 1.8 depending on formulation
Particle Size Distribution	55-65% > 32 microns (Alpine Jet Sieve)

Cured Film Properties

Gloss	Gardner 60 deg.	2 - 100
Impact	ASTM D-2794	Up to 160 in lbs
Pencil Hardness	ASTM D3363	H to 5H
Cross Hatch Adhesion	ASTM D-3359	Full pass (5B)
Flexibility - Conical Mandrel	ASTM D522	180 degrees 1/4 " Mandrel
Overbake Resistance	200 % Overbake	Excellent

Note: This information is given in good faith based upon information believed to be true at the time of issue. However, no warranty expressed or implied can be given as results may vary due to application and other conditions. This table is not intended to give exact specifications for any particular product but to be used only as a general guide.

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