

Powder Coating Data Sheet

Polyester TGIC

Description

Polyester TGIC coatings combine excellent weathering and mechanical properties. Additionally, these coatings have excellent resistance to yellowing on overbake, and can be coated at high thicknesses without substantial loss of properties. Their ease of use, flexibility and excellent properties make polyester TGIC coatings the most widely used powder coatings for exterior use.

Applications

Typical usage of these coatings includes aluminum extrusions (doors and window frames), fencing, garden furniture, bicycle frames and automotive trim parts.

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

Powder Properties

Cure Schedule	6' to 12' 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.	25-100
Impact	ASTM D2794	Generally 160 in lbs
Pencil Hardness	ASTM D3363	H to 2H
Cross Hatch Adhesion	ASTM D3359	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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