TECHNICAL DATA SHEET

POLITHERM 29 TF R SM GRIS AN UL 11992 SM

Code: 19087845

PRODUCT DESCRIPTION

Polyester powder coating with good adhesion, flexibility, and chemical and yellowing resistance. It has high physical resistance and good weathering resistance.

RECOMMENDED USE

Coating of metal parts for industrial purposes in outdoor environments.

PROPERTIES

Enhanced with additives to reduce baking time and/or temperature.

CERTIFICATIONS AND APPROVALS

Free from heavy metals and other substances provided for in RoHs Directive 2015/863 EU of 31/03/2015.

Certified coating acording to UL 1332 license MH63984.

PACKAGING

Cardboard box with 55 lb in high-density polyethylene bag.

CHARACTERISTICS OF MANUFACTURED PRODUCT

Resin	Polyester
Gloss	Semi matte
Finish	Smooth
Specific gravity (± 0,10)	1.62 g/cm³
Theoretical Coverage	120.5 ft²/lb at 1.0 mil
Mass loss during cure	Maximum 2%
Moisture content	Maximum 0.6%
Shelf life	12 months
Storage condition	It must be stored in closed containers, in cool, dry and covered places, at an ambient temperature not exceeding 86ºF.

APPLICATION CHARACTERISTICS

Substrate	Ferrous metals Non-ferrous metals
Surface preparation	Ferrous : Phosphatization or nanoceramic Non-ferrous: Chromatization or nanoceramic
Surface cleaning	The performance of this product is related to the degree of surface preparation. The surface must be clean, dry and free of any contaminants. Completely remove oils, grease and fats.
Thickness	2.4 mils - 3.1 mils
Cure conditions	10 min à 392 °F (metal temperature).
Cure windows	10 min - 15 min at 356 °F
Application system	Electrostatic spray gun corona

NOTE:

For non-ferrous metals phosphatizing, please contact our technical service.

CHARACTERISTICS OF APPLIED PRODUCT

Test	Specification/Standard
Adhesion	5B (ASTM D 3359)

Reviewed on February 06th, 2026

Gloss 60º	45 - 55 (ASTM D523)
Impact	Minimum 43 lb.in (ASTM D2794)
Flexibility (conic mandrel)	Maximum 1/8 in (ASTM D790)

CHEMICAL RESISTANCE CHARACTERISTICS

Test	**Specification/Standard**
Humidity	Minimum 1500h (ASTM D2247)
Salt spray	Minimum 700h (ASTM B117)

NOTE:

Tests for UL certification were performed on cold-rolled steel substrate sheets and hot-rolled steel with iron phosphate and nanoceramic treatments.

SAFETY PRECAUTIONS

Guidance is available in the product's Safety Data Sheet (SDS).

NOTE

The information provided herein is based on our testing and experience and is intended to inform you about the product and its possible applications. The information provided in this bulletin is not intended to be complete, and the user assumes the risk of using the product for a purpose other than the specifications recommended in this bulletin without first obtaining our written confirmation of its suitability for the intended purpose. While we strive to ensure the accuracy of the information provided herein, we cannot control the quality or condition of the substrate, nor any other factors that affect the use and application of this paint. Therefore, unless we agree in writing to any condition that deviates from our recommendations, we accept no liability that may arise regarding the performance of this product. The information contained in this bulletin is subject to change without notice, based on our experience and policy of continuous development.

Reviewed on February 06th, 2026