



POLITHERM 29 TF R SM GRAY UL W RAL 7046 SM

Code:	19463456	
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.		
Powder coating certified according to UL license MH63984.		
PACKAGING		
Cardboard box with 55115 lb in high-density polyethylene bag.		
CHARACTERISTICS OF MANUFACTURED PRODUCT		
Resin	Polyester	
Gloss	Semi matte	
Finish	Smooth	
Specific gravity (± 0,10)	1.57 g/cm³	
Theoretical Coverage	12435.3 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 86°F.	
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 356 °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)	



	Gloss 60°	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 1332 certification were performed on cold-rolled steel substrate sheets and hot-rolled steel with iron phosphate and nanoceramic treatments. The mechanical resistance tests were performed on degreased common steel sheet under specific curing and coating conditions for the product. The values may vary depending on the substrate used.	
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.	