

TECHNICAL DATA SHEET

Pulron 101ES Thermoplastic Coatings



General Description:

Pulron 101ES is a thermoplastic coating powder which has been specifically designed to provide a long lasting protection for general exterior applications. It is based on acid modified polyolefins and is applied by electrostatic spray. 101ES is resistant to adverse weather conditions, detergents, salt spray and typical airborne pollutants.

Recommended Coating Conditions:

It is recommended that chemical cleaning or sand blasting in SA 2,5 quality. Phosphatation or chromating is also recommended to obtain excellent adhesion and special corrosion resistance. When the powder is applied using corona discharge gun, the voltage 50-80 kV is ideal for coating. Post heat temperature and heating time must be optimized depending on metal thickness and process conditions.

Properties of Powder:

Coverage (% 100)	5,3 m ² /kg (at 200 microns)
Particle size	<250 microns
Bulk density	0,40 gr/cm ³
Packaging	Polyethylene bag and 15 kg cardboard boxes
Storage	Stored in a clean dry area (< 27°C) and out of sunlight

Performance Properties of Material

Density	gr/cm ³	0,95	ASTM D 792
Tensile Strength	Mpa	10	ISO 527
Elongation	%	470	ISO 527
Hardness	Shore D	44	ASTM D 2240
Vicat Softening Point	°C	73	ASTM D 1525
Melting Point	°C	93	ISO 11357
Tear Strength	N/mm	60	ASTM D 1938
Toxicity Index		1,8	NES 7
Flammability		V ₀	UL 94
Dielectric Strength*	KV/mm	18,8	IEC243 VDE0303
Volume Resistivity*	Ohm.cm	>10 ¹³	ASTM D 257
Surface Resistivity*	Ohm	>10 ¹³	ASTM D 257
Gloss		85	ASTM D 523
Taber Abrasion	mg	11	ASTM D 4060/87
Salt Spray	Hour	1000	ISO 9227
Impact Strength	N.m	10	ISO 6272
QUV	Hour	1000	ASTM D-4587

*: The tests were performed by raw material.