



DuPont Powder Coatings

DuPont Polymer Powders Switzerland Sàrl
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Data Sheet

Flamulit[®] HTC 252 UV

A DuPont powder coating resin

Product

Flamulit[®] HTC 252 UV is a tough chip-resistant thermoplastic powder coating that provides excellent corrosion and UV protection without the need for a primer. It is designed for fluidised bed and hot flocking applications.

Flamulit[®] HTC 252 UV is based on an ethylene acid copolymer.

Chemical Resistance

Flamulit[®] HTC 252 UV has very good resistance to chemical attack by both acids and alkalis. However, it has poor chemical resistance to solvents. Application-specific chemical resistance testing is recommended. Further detailed chemical resistance information may be obtained from DuPont.

Typical applications

Flamulit[®] HTC 252 UV is particularly suitable for outdoor, light poles, signs posts, street and garden furniture, balustrades, railings and trellis of stairways, fencing panels, supports for climbing plants, bike racks, water transportation, battery boxes.

Characteristics

Powder properties	ASTM Standard	Unit	Value
Specific Gravity (Natural)	D792	g/cm ³	0.94
Particle Size Distribution	-	µm	< 315
Bulk density (White)	D1895 (test 89)	g/cm ³	> 0.35
Fluidising characteristics			Good
Coating properties			
Salt Spray Resistance Subsurface corrosion of scribed sandblasted steel panel	B117-73 (5% common salt in water at 35°C)	mm	After 1000 hrs, loss of adhesion less than 10 mm
Subsurface corrosion of scribed sandblasted aluminium panel			After 2000 hrs, no loss of adhesion
Weathering, 2000 hr Exposure	G53 (8hrs UVB at 60°C + 4hrs Cond at 50°C)	Delta E % Gloss 60°	0.60 67
Appearance			Smooth / Glossy
Gloss, 60°	D523	%	80
Gloss, 20°	D523	%	55
Electrical / Mechanical / Thermal Properties			
Hardness	D2240	Shore D	48
Elongation at Break	D638	%	580
Tensile Strength	D638	MPa	16
Melting Point	D3418	°C	95
Vicat Softening Point	D1525	°C	77
Melt Flow Index (MFI) (190°C/2.16 kg)	D1238	g/10 min	35
Brittleness temperature	D 746	°C	- 60
Dielectric strength E _d **	D149	V/25µm	On testing
Volumetric resistivity	D257	Ohm/cm	On testing

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For Safety, Health, storage and handling recommendations as well as the disclaimer information, see the DuPont Metal Coating general guideline

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