



DuPont Powder Coatings

DuPont Polymer Powders Switzerland SA
Rue St-Joseph 25 / P.O. Box 140
CH-1630 Bulle 1

Data Sheet

Flamulit® HTC 245

A DuPont thermoplastic powder coating

Product

Flamulit® HTC 245 is a polyolefine based powder. The excellent flow characteristics result in homogeneous coatings, even on thin parts, with excellent protection against corrosion.

Flamulit® HTC 245 can be applied not only by fluidized bed dipping, but also by film sprinkling or rotational coating.

Typical applications

Flamulit® HTC 245 has been specially developed for protection of tubes and fittings in corrosive environment. The cathodic disbonding is lower than 20 mm, and after 1000 hours of salt spray exposition, the detachment along the cut is lower than 10 mm. This product is widely used for coating of battery containers as it provides excellent anticorrosion properties and hardness.

Typical coating conditions

Recommended pre-treatment:

Standard degreasing with organic solvents or with alkaline detergents. Degreasing might be followed by phosphatation and passivation. For increased mechanical adhesion sand blasting is recommended.

Procedure for fluidized bed:

- preheat 260-340 °C according to metal thickness
- immerse 3 to 6 seconds in fluidized bed

Results

Smooth and bright coatings. Thickness between 250 and 800 µm (250-800 g/m²) depending on coating conditions

Characteristics

General properties	Units	Methods	Values
MFI (190°C/2.16kg)	g/10min	DIN 53735	18
Particle size	µm	DIN 53734	< 315
Brittle point	°C	DIN 53446	-40
Softening temperature (Vicat)	°C	ASTM D 1525	101
Elongation at break	%	DIN 53475	200
Coating properties			
Specific gravity of the coating	g/cm ³	DIN 53479	0.93
Hardness Shore D		DIN 53505	56
Adhesion	N/cm	DIN 30670	> 40
Electric strength	kV/mm	DIN 53481	> 20
Erichsen static stamping	mm	ISO 1520	8
Chemical resistance			
Industrial acid solutions	very good		
Industrial alkaline solutions	very good		
Solvents	good		
Mineral salt solutions	very good		

Edition of April 01, subject to modifications

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



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