DuPont Powder Coatings

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

Data Sheet

Flamulit® HTC 262 UV

A DuPont thermoplastic powder coating

Product

Flamulit® HTC 262 UV is a polyolefin based coating powder developed to give coatings characterised by excellent adhesion, even without primer, good scratch resistance and hardness. It is applied by fluidised bed.

Typical applications

Flamulit® HTC 262 UV was especially developed for the coating of metal parts at very low preheat temperature. **Flamulit® HTC 262 UV** has also excellent elasticity good hardness and very good chemical resistance. It is therefore suitable for the coating of technical pieces for demanding applications

Typical coating conditions

Recommended pre-treatment :
Alkaline degreasing followed by phosphatation and passivation. As a minimum, degreasing with vapour phase chlorinated solvents. For increased mechanical adhesion, we recommend that parts be sand blasted.
Procedure for fluidised bed :

- preheat 180-280°C according to metal thickness
- immerse 5 to 6 seconds in fluidised bed
- auto-smoothing (cooled in ambient air)

For more informations, see DuPont guidelines for Metal Coating procedures.

Results

Smooth, white appearance coating.
Coating thickness :

- 250-600 µm (i.e. 250-600 g/m^2)

Characteristics

General properties	Units	Methods	Values
MFI (190°C/2.16kg)	g/10min	ASTM D 1238	55
Particle size	µm	Alpine	below 250
Brittle point	°C	ASTM D 746	-60
Softening temperature (Vicat)	°C	ASTM D 1525	77
Elongation at break	%	ASTM D 638	350
Coating properties			
Maximum working temperature	°C		55
UV stability	no significant damage after 2000 hrs UV-radiation if stabilised		
Specific gravity of the coating	g/cm3	ASTM D 792	0.93 to 0.95
Salt spray		ASTM B 117 scribed	corrosion 4 mm from scribe
		unscribed	> 2000 hrs
Hardness Shore D		ASTM D 2240	44
Adhesion : squaring		AFNOR T 30-038	no stripping
separation of the tongue		AFNOR T 58-112	no stripping
Electric strength	kV/mm	CEI 243-1	higher than 30
Erichsen static stamping	mm	ISO 1520	> 8
Chemical resistance			
Environmental stress cracking	hrs	ASTM D 1693	> 500
Dilute acids	good (except acetic acid)		
Dilute alkalis	very good		
Solvents	poor		
Mineral salt solutions	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.