

DT-650 High Polymer

DT-650 High Polymer is based on a polyester resin with high molecular weight. The coating is designed to provide outstanding flexibility and hardness as well as scratch resistance required when press forming is applied.

Product Characteristics

1. Excellent flexibility
2. Excellent hardness
3. Excellent anti-corrosiveness

Use

1. VTR cases and DVD cases
2. Refrigerators, Laundry Machines, Microwaves
3. Air conditioning equipment

Painting System

Material Type	Painting Composition	Product Title	Coating Thickness	Hardening Temperature
G.I, E.G.I	Primer	DP-860	5~7 μ m	216 $^{\circ}$ C
	Top coating	DT-650	17~20 μ m	232 $^{\circ}$ C

※ Backer : DB-100 Polyester backer applied

Physical properties

Specification	Test method	Result	
ASTM D523	60 $^{\circ}$ gloss	20~90	Gardner 60 $^{\circ}$ meter or equivalent
ASTM D3363	Pencil hardness	HB~2H	No break in the film (Mitsubishi uni pencil)
ASTM D4145	T-bend	0T~2T	No pick off with scotch #610 tape
ASTM D2794	Impact (1/2in \times 50cm \times 1kg)	Good	No pick off with scotch #610 tape
ASTM D5402-93	Solvent resistance	50 cycle	MEK double rub
ASTM G155	Accelerated weathering test 240hrs	Good	No objectionable chalking per ASTM D-4214
ASTM D2247	Humidity resistance 500hrs at 100 $^{\circ}$ F, 95% RH	Good	Less than 5% No.8 size blisters
ASTM B117	Salt spray test 500hrs 5% NaCl solution	Good	Less than 5% No.6 size

* All data is based on lab test results and experience of NCC but, it could be changed without notice because of continuous development about quality by NCC.