



Technical information of Binder- 651

Product Properties

Characteristics	Range/ Value	Unit	Ref. Standard
Solids content (%)	40±1	%	ISO 1625
PH	6.5±0.1	----	ISO 976
Viscosity, Brookfield (25°, cp)	≤500	CP	ISO 2555
Density (gr/cm ³)	1.01	Cm ³	ISO 2811
Minimum Film Formation Temperature (°C)	-7	°C	ASTM D2354

Applications

Binder 651 can be used to make pigment pastes for printing on any type of fiber or mixture of fibers. Binder 651 penetrates into the fibers and after heat exposure the pigments will get trapped between binder and fiber and will result in excellent properties such as abrasion and wash off resistance, high light fastness and color depth. Some of other benefits of Binder 651 are optimum brightness after printing, environmental friendliness and non-flammability. In addition to all this, fabrics printed by binder including pastes, show higher resistance against radioactive dye solutions.

Compatibility

Copolymers:

Binder- 651 could be used with butadiene copolymers.

Catalyst:

Catalysts used for printing paste, specifically the ones made with synthesized thickeners, include acidic salts such as Di ammonium phosphate, ammonium chloride, ammonium sulfate and ammonium nitrate which decompose after heat exposure and release acid and hence accelerate the polymerization procedure.

Softeners:

In order to soften the printed fabrics you could add 2% softeners such as Imperon softener. The more the paste penetrates into the fabric the softer will be the printed fabric.

Stabilizers:

You could add 1-1.5% stabilizer to the paste but due to sensitivity of the content of these additives in the paste, so that a little excessive amount of stabilizer results in brittle pattern on the fabrics, they are not recommended. Among these stabilizers we can name Imperon Fixierer HWA.

Binder content in the paste:

Regardless of the type and amount of the stabilizer and other components in the printing paste and also the printing method, 5% of binder is added to the paste. For darker designs and to get higher abrasion resistance, higher percentage of the binder is used.



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Storage

6 month from production date under standard conditions and away from freezing, direct sunlight and heat.

Safety tips

Material safety datasheets are available from PolymerIran company. While working with chemicals common safety measures must be observed. Skin, eye and mucous membrane irritation in prolonged contact with the acrylic polymer. Workplace should be sufficiently well-ventilated and protective clothes and goggles should be used.

Notice

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