

maple[®] FL-1050 Hybrid Polyester Resin

TECHNICAL DATA SHEET

Version : 2024

General Description

FL-1050 is a carboxyl functional polyester resin for combination with Epoxy at 50/50

- Excellent comprehensive properties
- Excellent yellowing resistance
- Medium reactivity

Extrusion&Application Conditions

Extruder	Twin screw
Temperature (°C)	100-110
Speed (rpm)	250
Application	0.5mm steel panel
Curing-metal temp.	180°C/10min

Product Specification

Property	Range	Test Method
Appearance	Pale granules	Visual
Color(Pt-Co)	≤250	GB/T9282.1-2008
Acid value mgKOH/g	70-76	GB/T6743-2008
Viscosity Brookfield, @ 175°C,mPa.s	10000-13500	GB/T9751.1-2008
Tg ,°C	Approx 58	GB/T19466.1-2004

Film Properties

Test	Result	Test Method
Film thickness (μm)	55-75	GB/T13452.2-2008
Gloss @ 60° (%)	≥90	GB/T9754
Direct/reverse impact (Kg.cm)	50/50	GB/T1732-1993

Starting Formulation

Component	Weight/g
FL-1050	300
Epoxy resin	300
Titanium dioxide	386
Flow agent	10
Benzoin	4

Package

White opaque polyethylene bags of 25kg

Shelf Life

The shelf life of the resin will be one year.
Stored in a dry place at temperature below 30°C
Avoid direct sunlight.

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