

**General Polyester Resin****for Hand Lay-up****Description :**

5050 is a thixotropic, color indicated general polyester containing wax and white colorant.

Performance :

High impact strength.
Provides medium-fast cure.
Good wet-out.
Good strength in laminates.
Medium thixotropic index.

Suggested Uses :

General purpose hand lay-up of small parts.

SPECIFICATIONS

Appearance	White
Styrene monomer content, %	40 ~ 44
Viscosity (Brookfield spindle #3, 60rpm, at 25°C), cps	350 ~ 450
Thixotropic index (Brookfield spindle #3, 6/60rpm, at 25°C)	2.0 ~ 3.0
Acid value, mg KOH/g resin	17 ~ 27

TYPICAL PERFORMANCE DATA

(for guidance only)

Typical Curing Characteristics:

Room temperature cure at 25°C, 100g, 0.3% PT-24(6% Co), 1.5 % MEKPO (55 %)

Gel time, mins.	10 ~ 15
Total time to peak exotherm, mins.	22 ~ 37
Peak exotherm temperature, °C	120~150

Typical Physical Properties :

Clear casting, 5050	
Barcol (934-1) hardness	41
Tensile strength, kgf/mm ² (ASTM D 638)	6.0
Elongation, %(ASTM D 638)	2.3
Flexural strength,kgf/mm ² (ASTM D 790)	11
Flexural modulus,kgf/mm ² (ASTM D 790)	300
Heat deflection temperature, °C	67
Glass Fiber Laminates (450g/m ² 3 layers)	
Tensile strength, kgf/mm ² (ASTM D 638)	11.6
Flexural strength,kgf/mm ² (ASTM D 790)	17.6
Flexural modulus,kgf/mm ² (ASTM D 790)	730
Fiber content, %	30

Recommended Storage:

Typical storage life at temperature below 25°C is six months. Storage life decreases with increasing temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. Keep containers sealed to prevent moisture pick-up and monomer loss. Agitate before using.

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