PRODUCT BULLETIN

September 2022

POLYLITE® 33404-05

Isophthalic Polyester Infusion Resin

DESCRIPTION

POLYLITE® 33404-05 is a pre-promoted, low viscosity, corrosion-grade isophthalic polyester infusion resin. These versatile products feature high molecular weight and crosslink density and offer good corrosion resistance in a variety of aqueous and acidic media.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Chemically resistant to many organic and inorganic solutions, solvents, and gases through a wide range of temperatures and concentrations
- Resists water degradation and blistering
- Retains mechanical properties at elevated temperatures due to high heat distortion temperature
- Versatile and can be used in hand lay-up, spray-up and filament winding applications

PROPERTIES – LIQUID

Property(1)	Unit	33404-05
Appearance	-	Amber
Acid Number	mg/g	10.5
NVM	%	48
Viscosity(2)	cps	125
Gel Time(3)	minutes	22
Total Time to Peak	minutes	42
Peak Exotherm	°C/°F	160/320
Specific Gravity	g/cm^3	1.08

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield LVF #2 at 60 RPM
3) 1.25 cc United Initiators Norox® MEKP-900 / 100 g resin

PROPERTIES – PHYSICAL

Property(1)	Unit	Laminate	Test Method
Tensile Strength	psi	20,000	ASTM D 638
Tensile Modulus	kpsi	1,500	ASTM D 638
Tensile Elongation	%	1.60	ASTM D 638
Flexure Strength	psi	25,500	ASTM D 790
Flexure Modulus	psi	1,250	ASTM D 790

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Resin Content: 55%; Filler Content: 2.90%; Glass Content: 42%

APPLICATION

Refer to Polynt's Composites Applications Guide ("Cookbook") for equipment and application recommendations. Each user must determine the suitability of this product to his/her particular mode of operation and intended end-use application. A Polynt representative will be available to assist in the proper selection of all Polynt-Reichhold products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of DION® 6631 Series is 120 days from the date of manufacture from Polynt. To maximize usage life and maintain optimum properties, resins and gel coats should be stored in the original closed container at temperatures below 23°C/73°F and away from ignition sources and sunlight. Keep containers sealed to prevent moisture pick-up and monomer loss.

SAFETY & WARRANTY

To receive a copy of our safety and warranty information, please email safetyandwarranty@polynt.com.