PRODUCT BULLETIN

June 2025

POLYLITE® 31064-00

Medium to High Reactivity Pultrusion Resin

DESCRIPTION

POLYLITE® 31064-00 is a medium to high reactivity unsaturated polyester resin formulated for pultrusion.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Good mechanical properties due to retention of properties at elevated temperatures
- Excellent fiber wet-out, fast line speeds, and high gloss

PROPERTIES – LIQUID

Property(1)	Unit	31064-00
Appearance	-	Clear – slight haze
Color	-	Amber
Acid Number	mg/g	14.25
SPI NVM	%	71.5
Viscosity(2)	cps	2,700
SPI Gel Time(3)	minutes	5.0
SPI Cure	minutes	2.5
SPI Peak Exotherm	°C/°F	210/410

1) All properties at 25°C/77°F unless otherwise noted. SPI testing performed in water bath at 82.2 °C
2) Brookfield Viscometer LVF Spindle #3 at 12 RPM
3) 1.0 g Arkema Luperox® BPO crystals per 100 g resin

PROPERTIES – PHYSICAL

Property(1)	Unit	Neat Resin Casting	Test Method
Tensile Strength	psi	11,000	ASTM D 638
Tensile Modulus	psi	427,000	ASTM D 638
Tensile Elongation	%	5.5	ASTM D 638
Flexure Strength	psi	20,000	ASTM D 790
Flexure Modulus	psi	534,000	ASTM D 790
Heat Deflection Temperature	°C/°F	108/223	ASTM D 648
Hardness, Barcol Model 934-1	HB	37	ASTM D 2583

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.

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 products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of POLYLITE® 31064-00 is 180 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.