PRODUCT BULLETIN

March 2021

POLYLITE® 31025-01

High Reactive Molding Resin

DESCRIPTION

POLYLITE® 31025-01 is an unpromoted, high reactivity, low viscosity, unsaturated polyester molding resin derived from maleic acid and standard glycols dissolved in styrene. Suggested applications include general purpose BMC, pultrusion, RTM, and wet molding.

BENEFITS & FEATURES

- Fast wet-out and flow plus formulation flexibility for high glass and filler content due to low viscosity
- Compatible with several LPA's due to high reactivity

PROPERTIES – LIQUID

Property(1)	Unit	31025-01
Appearance	-	Clear Light Amber
NVM	%	67
Viscosity(2)	cps	650
Acid Value	mg/g	12
SPI Gel Time(3)	minutes	3.6
SPI Cure Time	minutes	1.75
SPI Peak Exotherm	°C/°F	235/455
Specific Gravity	-	1.125
Flash Point (Seta Closed Cup)	°C/°F	32/89

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LV Spindle #3 at 60 RPM
3) 1.0% BPO

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	9,000	ASTM D 638
Tensile Modulus	psi	573,600	ASTM D 638
Tensile Elongation	%	1.86	ASTM D 638
Flexure Strength	psi	17,000	ASTM D 790
Flexure Modulus	psi	588,700	ASTM D 790
Heat Deflection Temperature	°C/°F	136/277	ASTM D 648
Hardness, Barcol Model 934-1	HB	50	ASTM D 2583

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

APPLICATION

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 POLYLITE® 31025-01 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.