PRODUCT BULLETIN

March 2018

POLYLITE® 31608-00

High Reactive Polyester Resin

DESCRIPTION

POLYLITE® 31608-00 is an un-promoted, high reactive, low viscosity unsaturated polyester resin derived from maleic acid and standard glycols, dissolved in styrene. POLYLITE® 31608-00 is intended for general purpose SMC, BMC and wet molding in combination with low shrink and low profile additives.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Compatible with a variety of low shrink and low profile additives due to high reactivity
- Excellent physical properties and high HDT due to high reactivity built into polymer backbone
- Allows for maximum formulation flexibility including high glass and filler loadings due to low viscosity
- Excellent thickening consistency from consistent molecular weight control

PROPERTIES – LIQUID

Property(1)	Unit	31608-00
NVM	%	65.5
Acid Number	mg KOH/g	21.0
Viscosity (2)	cps	950
SPI Gel Time(3)	minutes	8.5
SPI Gel to Peak	minutes	1.35
SPI Peak Exotherm	°C/°F	230
Specific Gravity	-	1.115
Water Content	%	0.15 max
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 #2 at 20 RPM
3) 1.0 g BPO Crystals/100 g resin

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PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	8,000	ASTM D 638
Tensile Modulus	psi	536,000	ASTM D 638
Tensile Elongation	%	1.7	ASTM D 638
Flexure Strength	psi	14,000	ASTM D 790
Flexure Modulus	psi	452,000	ASTM D 790
Heat Deflection Temperature	°C/°F	140/283	ASTM D 648
Hardness, Barcol Model 934-1	HB	53	ASTM D 2583

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Catalyst: Lupersol A-98 @ 1%; Styrene @ 1%; Cure Conditions: 16 hrs. @ 130 °F, 2 hrs. @ 180 °F, 2 hrs. @ 250 °F

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® 31608-00 resins 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.