PRODUCT BULLETIN

October 2018

POLYLITE® 32132

Polyester Engineered Cultured Marble Resins

DESCRIPTION

POLYLITE® 32132 resins are rigid, orthophthalic, low-reactivity, moderate-viscosity, casting resins recommended for vanities and difficult to mold parts. Cultured marble vanities made with POLYLITE® 32132-00 or POLYLITE® 32132-18 will exceed ICPA* and ANSI† thermal shock standards when properly mixed, catalyzed, and cured.

POLYLITE® 32132 resins are pre-promoted to gel and cure at room temperature upon the addition of methyl ethyl ketone peroxide (MEKP).

Suggested applications for POLYLITE® 32132 resins include cultured marble, cultured granite, and POLYLITE® 32132-00 is also recommended for casting recycled glass or metal, and polymer concrete.

**International Cast Polymers Alliance of ACMA, Arlington, VA*
***American National Standards Institute, New York, NY*

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Allows for high filler loading, has excellent filler suspension and superior air release due to medium viscosity
- Specially promoted for controlled gel and cure, low part exotherm, minimized warping, and excellent resistance to impact, thermal, drift control, short production cycles, and demolding cracks
- Meets California Rule 50 and SCAQMD Rule 1162 with low styrene and high solids
- Unique polymer provides outstanding thermal shock resistance, excellent impact strength and flexural strength, superior air release, and toughness
- Excellent filler suspension, allows for high filler loading, and minimum warping due to medium viscosity

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PROPERTIES – LIQUID

Property[1]	Unit	32132-00	32132-18
Liquid Color	visual	Clear Purple	Purple
Cured Color	visual	Clear Purple/Pink	-
NVM	%	68.5	68.5
Viscosity[2]	cps	1,050	1,050
Gel Time[3]	minutes	10	18
Gel to Peak	minutes	19	30
Peak Exotherm	°C/°F	146/295	146/295
Specific Gravity	g/cm^3	1.14	1.14
Flash Point (Seta Closed Cup)	°C/°F	32/89	32/89

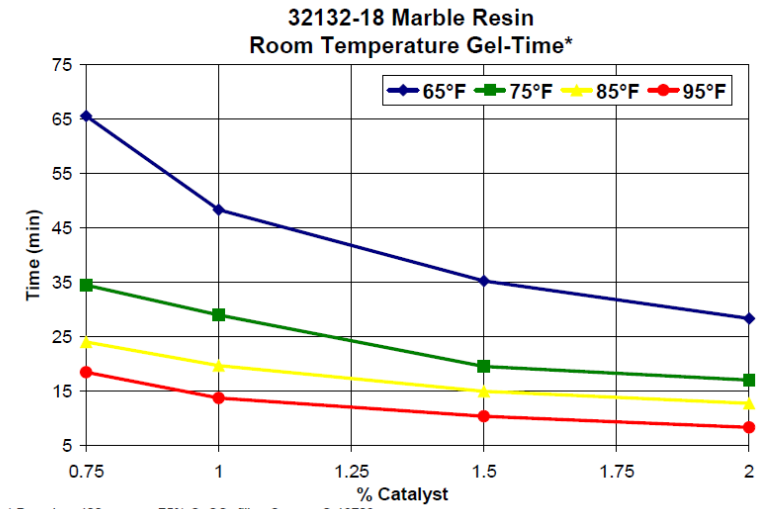
1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LFV Spindle #3 at 60 RPM
3) 1.25 g Norox® MEKP-900 per 100 g resin

PROPERTIES – PHYSICAL

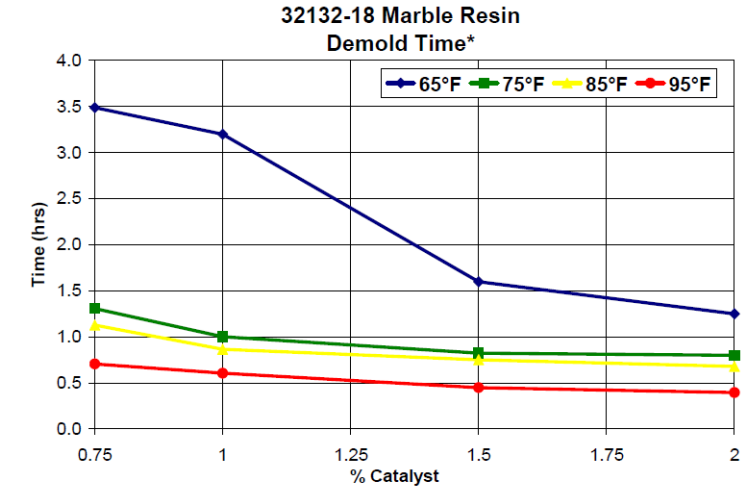
Property[1]	Unit	32132-00	32132-18	Test Method
Tensile Strength	psi	6,000	6,000	ASTM D 638
Tensile Modulus	psi	630,000	630,000	ASTM D 638
Tensile Elongation	%	1.2	1.2	ASTM D 638
Flexure Strength	psi	18,000	18,000	ASTM D 790
Flexure Modulus	psi	540,000	540,000	ASTM D 790
Heat Deflection Temperature	°C/°F	47/117	47/117	ASTM D 648
Hardness, Barcol Model 934-1	HB	50	40	ASTM D 2583
Water Absorption - 2 hours at 212 °C - 24 hours at 73 °F	 % gain % gain	 0.15 1.2	 0.15 1.2	ASTM D 570

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Cure Conditions: Clear casting with 1.25% Norox® MEKP-900; overnight cure @ 73 °F; postcured for 2 hours @ 150 °F and 2 hours @ 250 °F

PROPERTIES - OTHER



* Based on 400 g mass, 75% $CaCO_3$ filler, Superox® 46709



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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® 32132 resins 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.

RELATED PRODUCTS

Similar Resins

- POLYLITE® 32124-12 Marble, Granite
- POLYLITE® 32145-14 & 17 Marble, Onyx, Granite
- POLYLITE® 32153-00 Onyx only
- POLYLITE® 32141-01 Marble only

SAFETY & WARRANTY

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