PRODUCT BULLETIN

October 2018

POLYLITE® 32109 Series

Polyester Cultured Marble Resin

DESCRIPTION

POLYLITE® 32109 is a series of resilient, low-reactivity, casting resins. This resin series was designed for the fabrication of cultured marble vanities and parts of all sizes. When properly mixed, initiated and cured, vanities made with POLYLITE® 32109 will meet or exceed ICPA and ANSI - thermal shock standards.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Specially promoted for excellent color, moderate cycle times and controlled gel and cure drift
- Medium viscosity versions allow for high filler acceptance
- Excellent filler suspension due to high solids content
- Moderate resilience results in good thermal shock resistance
- Minimized warpage due to low shrinkage

PROPERTIES – LIQUID

VERSIONS

32109-10	Fast Gel time version
32109-12	Longer Gel time version 32109-10
32109-20	Volume enhanced version 32109-10

Property(1)	**Unit**	**32109-10**	**32109-12**	**32109-20**
Liquid Color	-	Gray/Pink	Gray/Pink	Gray/Pink
Cured Color	-	Pink/Amber	Pink/Amber	Pink/Amber
NVM	%	69	69	69
Viscosity(2)	cps	1,000	1,000	1,000
Gel Time(3)	minutes	10	14	10
Total Time to Peak	minutes	23	29	23
Peak Exotherm	°C/°F	115/239	115/239	115/239
Specific Gravity	-	1.12	1.12	1.12
Flash Point (Seta Closed Cup)	°C/°F	32/89	32/89	32/89

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RV Spindle #2 at 20 RPM
3) 1.25% MEKP 900

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PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	6,000	ASTM D 638
Tensile Modulus	psi	630,000	ASTM D 638
Tensile Elongation	%	1.2	ASTM D 638
Flexure Strength	psi	18,000	ASTM D 790
Flexure Modulus	psi	540,000	ASTM D 790
Heat Deflection Temperature	°C/°F	47/117	ASTM D 648
Water Absorption - 2 hours at 212°F - 24 hours at 73°F	 % gain % gain	 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 initiated with 1.25% Norox MEKP-900; Gel overnight at RT (16 hrs. @ 23 °C / 73 °F); Post cure 2 hrs. @ 65 °C 150 °F, then 2 hrs. @ 121 °C / 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® 32109 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.