PRODUCT BULLETIN

March 2018

POLYLITE® 32131 Series

Engineered Cast Marble Resin

DESCRIPTION

POLYLITE® 32131 Series are pre-promoted, resilient, low reactivity, medium viscosity casting resins. POLYLITE® 32131 Series are formulated for ambient curing with methyl ethyl ketone peroxide (MEKP) initiators for vanities, bathtubs, wall panels, and other difficult to mold parts.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Capable of exceeding ICPA and ANSI thermal shock standards with resilience
- Excellent filler suspension due to high solids content
- Allows high filler loadings due to medium viscosity

PROPERTIES – LIQUID

Property(1)	Unit	32131-00	32131-10	32131-20
Appearance	-	Clear	Clear	Slight Haze
NVM	%	70	71	71
Viscosity (2)	cps	1,600	1,600	1,600
Gel Time(3)	minutes	12.5	21.0	26.0
Total Time to Peak	minutes	26.5	37.0	26.0
Peak Exotherm	°C/°F	124/256	118/245	118/245
Specific Gravity	-	1.15	1.15	1.15
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 LVF Spindle #3 at 30 RPM
3) 1.25 cc of MEKP-900 per 100.0 g of resin

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	6,000	ASTM D 638
Tensile Modulus	psi	3,000	ASTM D 638
Tensile Elongation	%	43.3	ASTM D 638
Flexure Strength	psi	8,000	ASTM D 790
Flexure Modulus	psi	2,000	ASTM D 790
Compression Strength	psi	11,000	ASTM D 695
Heat Deflection Temperature	°C/°F	37/99	ASTM D 648
Hardness, Barcol Model 934-1	HB	21	ASTM D 2583
Water Absorption - 2 hours at 212°F - 24 hours at 73°F	 % gain % gain	 1.53 0.22	ASTM D 570
Izod Impact -Type "E"	ft-lb/in	3.5	ASTM D 256

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Initiator type and ratio: 1.5 g of MEKP-900 per 100.0 g of resin; Cure conditions: 16 hrs. @ 73°F; Post-cure conditions: 2 hrs. @ 150°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® 32131 Series 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.

SAFETY & WARRANTY

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