PRODUCT BULLETIN

June 2018

POLYLITE® 32030 Series

Clear Casting Resin

DESCRIPTION

POLYLITE® 32030 Series are water-white, clear casting resins designed for applications in which extreme clarity and absence of color when cured are required.

POLYLITE® 32030 Series are low-viscosity, low-reactivity, unsaturated polyester resins. POLYLITE® 32030 resins are pre-promoted for curing with various methyl ethyl ketone peroxides (MEKP) such as United Initiators® Norox MEKP 900, MEKP 9H, MEKP 925 or Luperox DDM-9. A wide range of gel times are possible through choice of initiator (catalyst). Suggested applications include decorative castings, tabletops, *objets d'art,* and biological encapsulations.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Outstanding air release and meets California Rule 50 and SCAQMD Rule 1162 due to low viscosity
- Resists yellowing due to UV-stabilization
- Water white when cured, designed for small or large castings, and wide range of gel times due to being specially promoted

PROPERTIES – LIQUID

Property(1)	Unit	32030-10	32030-15
Appearance	-	Clear	Clear
Color, Liquid	-	Water-White	Blue-Gray
Color, Cured	-	Water-White	Water-White
NVM SPI	%	66	68
Viscosity	cps	525(2)	1,050(3)
Gel Time(4)	minutes	17	16
Total Time to Peak	minutes	45	40
Peak Exotherm	°C/°F	134/273	141/286
Specific Gravity	-	1.15	1.15

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LVF Spindle #3 at 60 RPM
3) Brookfield Viscometer RVF Spindle #2 at 20 RPM
4) 1.25% by volume of United Initiators® MEKP 900 per 100 grams of resin at 25°C

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PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	10,000	ASTM D 638
Tensile Modulus	psi	575,000	ASTM D 638
Tensile Elongation	%	2	ASTM D 638
Flexure Strength	psi	21,000	ASTM D 790
Flexure Modulus	psi	598,000	ASTM D 790
Heat Deflection Temperature	°C/°F	51/124	ASTM D 648
Hardness, Barcol Model 934-1	HB	41	ASTM D 2583

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Clear castings initiated with 1.25% United Initiators® Norox MEKP 900 methyl ethyl ketone peroxide, cured overnight at room temperature, and post-cured 2 hours at 150°F then 2 hours at 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® 32030 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

POLYLITE® 32032-00, an acrylic-modified resin for weather resistance with a similar refractive index as glass

SAFETY & WARRANTY

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