PRODUCT BULLETIN

July 2026

POLYLITE® 32145 Series

Polyester Universal Casting Resins

DESCRIPTION

POLYLITE® 32145 is a series of moderately resilient, low-reactivity, orthophthalic casting resins with viscosities ranging from medium to high. POLYLITE® 32145 is designed for the casting of cultured marble, onyx, or granite and is versatile enough to make small items as well as vanities and large tubs. Cultured marble vanities made with POLYLITE® 32145 resins will exceed ANSI* thermal shock standards when properly mixed, initiated, and cured.

These unsaturated polyester resins are pre-promoted for curing at room temperature with methyl ethyl ketone peroxide. Various versions are available to suit almost any shop. Suggested applications include cultured marble, cultured onyx, and cultured granite.

* *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
- Unique polymer provides outstanding thermal shock resistance, excellent impact and flexural strength, superior air release, and toughness
- Specially promoted for excellent color, short production cycles, and controlled gel and drift cure
- Crack resistance, even in warm weather due to medium to high viscosity
- High solids content results in excellent filler suspension

PROPERTIES – LIQUID

Property(1)	Unit	32145-21	32145-22	32145-30
Appearance	-	Light Amber-Pink	Light Amber-Pink	Light Amber-Pink
NVM-SPI	%	69.0	69.0	72.5
Viscosity(2)	cps	1,000(2)	1,100(2)	1,700(3)
Gel Time	minutes	21(4)	9.0(5)	32.5(6)
Gel to Peak	minutes	10.5	11.5	20
Peak Exotherm	°C/°F	146/295	144/291	133/271
Specific Gravity	g/cm³	1.14	1.14	1.15

1) All properties at 25°C/77°F unless otherwise noted. SPI testing performed in water bath at 82.2 °C.
2) Brookfield Viscometer LV Spindle #3 at 60 RPM
3) Brookfield Viscometer RV Spindle #3 at 20 RPM
4) 1.25 g United Initiators Norox® MEKP-9H per 100 g resin
5) 1.0 cc United Initiators Norox® MEKP-900 per 100 g resin
6) 1.0 g Arkema Luperox® DDM-9 per 100 g resin

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APPLICATION

Refer to Polynt's Composites Applications Guide ("Cookbook") for equipment and application recommendations. 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 products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of POLYLITE® 32145 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.

RELATED PRODUCTS

POLYLITE® 32124-12	Marble only
POLYLITE® 32132-00 & 32132-18	Marble only
POLYLITE® 32153-00	Onyx only

SAFETY & WARRANTY

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