PRODUCT BULLETIN

June 2020

POLYLITE® 32703-00

Polyester Surfacing Resin

DESCRIPTION

POLYLITE® 32703-00 is a rigid orthophthalic acid-based, polyester resin with high reactivity and medium viscosity. This resin can be promoted to gel and cure at room temperature with the addition of Cobalt 12% and initiated with methyl ethyl ketone peroxide (MEKP) 900.

When properly formulated POLYLITE® 32703-00 can be non-air-inhibited, to cure in the air to a hard, tack-free, moisture-resistant surface. Typical applications include protective coatings for automotive, boats, concrete, cinder block, masonry surfaces, primers, and decorative coatings.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Rigid and resists scratches
- Contains no wax and can be used for paint primer
- Can be used as a decorative coating due to light color
- Can be used in non-attainment areas due to low styrene content

PROPERTIES – LIQUID

Property(1)	Unit	32703-00
Color, APHA	-	150 (Max.)
NVM	%	70.5
Viscosity(2)	cps	1,700
SPI Gel Time(3)	minutes	7.5
SPI Cure	minutes	1.75
SPI Peak Exotherm	°C/°F	207/405
Specific Gravity	g/cm³	1.125
Flash Point (Seta Closed Cup)	°C/°F	32/89

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LV Spindle #2 at 20 RPM
3) 1.0% BPO Crystals

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	6,000	ASTM D 638
Tensile Modulus	psi	512,000	ASTM D 638
Tensile Elongation	%	1.6	ASTM D 638
Flexure Strength	psi	15,000	ASTM D 790
Flexure Modulus	psi	607,000	ASTM D 790
Heat Deflection Temperature	°C/°F	97/207	ASTM D 648
Hardness, Barcol Model 934-1	HB	40	ASTM D 2583
Water Absorption - 2 hours at 212°F - 24 hours at 73°F	 % gain % gain	 1.4942 0.3659	ASTM D 570
Izod Impact -Type "A"	ft-lb/in	0.21	ASTM D 256

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Clear castings were prepared by mixing 1 gram of Atofina Lupersol A98 in styrene then adding it at the rate of 1.00 g per 100 g of resin. The resin was allowed to gel overnight (16 hours) at 130°F then post cured for 3 hours at 180°F followed by 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® 32703-00 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® 32737-00 Waxed Surfboard Resin
POLYLITE® 32773-00 Waxed Surfacing Resin
POLYLITE® 32748-10 Low Color Waxed Surfacing Resin

SAFETY & WARRANTY

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