PRODUCT BULLETIN

August 2018

POLYLITE® 31814-10

Polyester Bowling Ball Core Resin

DESCRIPTION

POLYLITE® 31814-10 is a promoted, resilient, low-reactivity, low viscosity casting resin designed for the manufacture of bowling ball cores using filler systems required for multiple weight bowling balls. Cores made with this resin are used in bowling balls which meet the requirements set by the "American Bowling Congress" and the "Professional Bowler Association." This resin will develop a respectable Shore D hardness while maintaining superior toughness and impact resistance. POLYLITE® 31814-10 resin is versatile enough to make light weight and heavy weight balls when properly initiated and cured at room or oven temperatures with methyl ethyl ketone peroxide.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques (manufactured in ISO9002-certified plants)
- Outstanding toughness, excellent impact resistance, superior air release, and crack resistant due to unique polymer
- Pre-promoted for flexible production adaptability and controllable gel and cure
- Good air release and excellent filler suspension due to low viscosity

PROPERTIES – LIQUID

Property(1)	Unit	31814-10
NVM	%	66
Viscosity(2)	cps	600
Gel Time(3)	minutes	9.0
Gel to Peak	minutes	10
Peak Exotherm	°C/°F	133/271
Specific Gravity	-	1.11
Flash Point (Seta Closed Cup)	°C/°F	32/89

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVF Spindle #2 at 20 RPM
3) 1.00 g Trig 44K per 100 g resin

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® 31814-110 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.