PRODUCT BULLETIN

October 2018

POLYLITE® 31842-35

Polyester Bowling Ball Shell Resin

DESCRIPTION

POLYLITE® 31842-35 is a non-promoted, tough, medium viscosity casting resin designed for the manufacture of bowling ball shells for multiple weight bowling balls. Shells 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 hardness while maintaining superior toughness and impact resistance. POLYLITE® 31842-35 resin is versatile enough to make light weight and heavy weight balls when properly promoted and initiated then cured at room or oven temperatures with methyl ethyl ketone containing peroxides.

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 results in outstanding toughness, excellent impact resistance, superior air release, is pigmentable with excellent color, and has a Shore D hardness of 79-81 at 22 °C
- Unpromoted which allows for flexible production adaptability and controllable gel and cure
- Good air release and crack resistance due to medium-low viscosity

PROPERTIES – LIQUID

Property(1)	Unit	31842-35
NVM	%	66
Viscosity(2)	cps	800
SPI Gel Time(3)	minutes	4
SPI Cure	minutes	3
Peak Exotherm	°C/°F	160/320
Specific Gravity	-	1.12

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LVF Spindle #3 at 60 RPM
3) SPI Gel: 1.0% BPO in 82 °C water bath

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® 31842-35 is 180 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.