PRODUCT BULLETIN

December 2020

POLYLITE® 33195 Series

Low-Profile Fillable Laminating Resins

DESCRIPTION

POLYLITE® 33195 Series resins are low viscosity, thixotropic polyester resins that are pre-promoted to gel and cure at room temperature with the addition of a methyl ethel ketone peroxide (MEKP) initiator. POLYLITE® 33195 resins are a low-profile resins developed for laminating applications and can be used with or without added calcium carbonate, alumina trihydrate, or calcium sulfate fillers.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Good handling properties including rapid wetting of reinforcements, improved turnover and fabrication time, maintenance of desired resin-to-glass ratio, and reduced air entrapment
- Improved cosmetics including minimal print-through of reinforcement materials and reduced post-cure tendencies
- Consistent gel and cure times at various catalyst levels due to stable gel time
- Various gel times allow for working time modifications according to part size and improved cycle times
- Versatile and suitable for hand lay-up or spray-up applications

PROPERTIES – LIQUID

Property[1]	Unit	33195-02	33195-04	33195-10	33195-30
Appearance	-	Opaque/Blue Pigmented	Opaque/Blue Pigmented	Opaque/Amber	Opaque/Amber
NVM	%	62	62	62	62
Viscosity	cps	275[2]	275[2]	210[2]	350[3]
Thix Index	-	4.35	3.8	2.9	4.25
Gel Time	minutes	16.5[4]	23[4]	20[5]	18[6]
Gel to Peak	minutes	9	11	10	18
Peak Exotherm	°C/°F	179/354	168/334	165/329	98/208
Flash Point (Seta Closed Cup)	°C/°F	32/89	32/89	32/89	32/89

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LVF Spindle #2 at 60 RPM
3) Brookfield Viscometer LVF Spindle #3 at 60 RPM
4) 1.25% by weight HP-90 per 100 g resin
5) 1.25% by volume of MEKP-9 per 100 g resin
6) 1.20% by weight of DDM-9 per 100 g resin filled 45% PLU PRO 8

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	5,000	ASTM D 638
Tensile Modulus	psi	590,000	ASTM D 638
Tensile Elongation	%	1.0	ASTM D 638
Flexure Strength	psi	9,000	ASTM D 790
Flexure Modulus	psi	550,000	ASTM D 790
Compression Strength	psi	18,000	ASTM D 695
Heat Deflection Temperature	°C/°F	82/180	ASTM D 648
Hardness, Barcol Model 934-1	HB	30	ASTM D 2583
Water Absorption - 2 hours at 212°F - 24 hours at 73°F	 % gain % gain	 0.7174 0.1266	ASTM D 570

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Clear casting with 1.25% MEKP-9 cured overnight at room temperature, and post cured for 2 hours at 65.5 °C (150 °F) and then 2 hours at 121 °C (250 °F).

APPLICATION

Refer to the Polynt Applications Guide ("Cookbook") for equipment, application and repair 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-Reichhold products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of POLYLITE® 33195 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.

SAFETY & WARRANTY

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