PRODUCT BULLETIN

March 2018

POLYLITE® 33008 Series

Low Styrene Laminating Resin

DESCRIPTION

POLYLITE® 33008 Series are promoted, thixotropic, low styrene, unsaturated polyester laminating resins. POLYLITE® 33008 Series are environmentally friendly and sustainable products formulated for ambient curing with methyl ethyl ketone peroxide (MEKP) initiators for general purpose (non-marine) hand lay-up or spray-up applications.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Complies with Rule 1162 and Regulation 8: Rule 50 for Polyester Resin Operations with less than 35% styrene (by weight)
- Quick turnover of parts and ease of handling due to rapid wetting of reinforcements and low air entrapment
- Resistance to draining and sagging due to thixotropic properties
- Fast Barcol development in thin cross-section laminates due to rapid rate of cure
- Versatile and suitable for hand lay-up or spray-up applications
- Formulated with 20% recycled/renewable content.

PROPERTIES – LIQUID

Property(1)	Unit	33008-20	33008-30	33008-40
Appearance	-	Opaque	Opaque	Opaque
Viscosity(2)	cps	600	600	600
Thix Index	-	2.5(minimum)	2.5(minimum)	2.5(minimum)
Gel Time(3)	minutes	20	30	40
Gel to Peak	minutes	11	13	13
Peak Exotherm	°C/°F	155/311	155/311	145/293
Specific Gravity	-	1.10	1.10	1.10
Flash Point (Seta Closed Cup)	°C/°F	32/89	32/89	32/89

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LVF Spindle #3 at 60 RPM
3) 1.5 cc of DDM-9 per 100 g of resin for versions 20, 30, and 40

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	9,000	ASTM D 638
Tensile Modulus	psi	420,000	ASTM D 638
Tensile Elongation	%	2.7	ASTM D 638
Flexure Strength	psi	19,000	ASTM D 790
Flexure Modulus	psi	530,000	ASTM D 790
Compression Strength	psi	16,000	ASTM D 695
Heat Deflection Temperature	°C/°F	59/138	ASTM D 648
Hardness, Barcol Model 934-1	HB	36	ASTM D 2583
Water Absorption - 2 hours at 212°F - 24 hours at 73°F	 % gain % gain	 1.15 0.22	ASTM D 570
Izod Impact -Type "E"	ft-lb/in	1.92	ASTM D 256

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Initiator type and ratio: 1.5 g of DDM-9 per 100 g of resin; Cure conditions: 16 hrs. @ 73°F; Post-cure conditions: 2 hrs. @ 150°F, 2 hrs. @ 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® 33008 Series 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.