PRODUCT BULLETIN

April 2025

Polynt A 5688 GA

Resilient Premium Surfacing Resin

DESCRIPTION

Polynt A 5688 GA is a clear finishing resin designed for use in a wide variety of surfacing applications. This resin will cure in air to a hard, tack-free, moisture-resistant surface.

Polynt A 5688 GA is non-air-inhibited, and light stabilized. It is rigid, with low reactivity, low viscosity, and pre-promoted to cure at room temperature with the addition of 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
- Cures to a hard, tack-free surface due to the content of a surfacing agent
- Minimal yellowing due to UV-stability
- Specially promoted to produce clear curing resin with long gel time to allow removal of brush marks

PROPERTIES – LIQUID

Property(1)	Unit	5688 GA
NVM	%	61
Viscosity(2)	cps	413
Gel Time(3)	minutes	23
Total Time to Peak	minutes	36
Peak Exotherm	°C/°F	193/380
Specific Gravity	g/cm^3	1.12

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LVF Spindle #3 at 60 RPM
3) 1.50% United Initiators Norox® MEKP-925H

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Laminate[3]	Test Method
Tensile Strength	psi	6,000	12,000	ASTM D 638
Tensile Modulus	psi	504,000	1,080,000	ASTM D 638
Tensile Elongation	%	1.25	1.43	ASTM D 638
Flexure Strength	psi	17,000	26,000	ASTM D 790
Flexure Modulus	psi	522,000	1,090,000	ASTM D 790
Heat Deflection Temperature	°C/°F	78.8/174	-	ASTM D 648
Hardness, Barcol Model 934-1	HB	42	-	ASTM D 2583

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) 1.5% United Initiators Norox® MEKP-925H, Cured 24 hrs at 77°F; post-cured 4 hrs at 150°F.
3) 1.5% United Initiators Norox® MEKP-925H, Laminate schedule: 2 plies of 2.0 oz/ft² CSM. Glass content 28-30%. Cured 24 hrs. at 77°F; post-cured 4 hrs at150°F.

APPLICATION

Refer to Polynt's Composites Applications Guide ("Cookbook") for equipment and application 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 products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of Polynt A 5688 GA 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.