PRODUCT BULLETIN

January 2022

POLYNT A 6125 IAH

Low Profile Infusion and LRTM Resin

DESCRIPTION

Polynt A 6125 IAH is a pre-promoted, one component, low profile, shrink controlled resin containing reactive monomers. It is formulated for the fabrication of composite parts using the Infusion and Light Resin Transfer Molding (LRTM) process at ambient conditions. Polynt A 6125 IAH is ideally suited for use in highly visible parts with requirements for exceptional surface quality and dimensional stability. Polynt A 6125 IAH resins are typically used with gel coat on at least one surface.

BENEFITS & FEATURES

- Exceptional surface quality without filler
- Excellent dimensional stability due to shrinkage control and low exotherm
- Easy to use one component system
- Excellent mechanical properties
- Low viscosity for rapid mold filling and excellent fiber wet-out
- Fast cycle times due to rapid cure development allowing for quick demold

PROPERTIES – LIQUID

Property(1)	Unit	Polynt A 6125 IAH
Appearance	-	Amber
NVM	%	64.5
Viscosity (2)	cps	105
Gel Time(3)	minutes	13
Weight per Gallon	lbs/gal	9.0

1) All properties at 25°C/77 unless otherwise noted
2) Brookfield Viscometer LVT Spindle #1 at 30 RPM
3) 1.5% United Initiators Norox® MEKP-9

PROPERTIES – PHYSICAL

Property(1)	Unit	Laminate(2)	Test Method
Tensile Strength	psi	14,800	ASTM D 638
Tensile Modulus	psi	969,000	ASTM D 638
Tensile Elongation	%	2.29	ASTM D 638
Flexure Strength	psi	31,100	ASTM D 790
Flexure Modulus	psi	1,066,000	ASTM D 790
Hardness, Barcol Model 934-1	HB	40	ASTM D 2583

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) 2 plies of 2.0 CSM, 35% glass content by weight.

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-Reichhold products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of Polynt A 6125 IAH 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.