PRODUCT BULLETIN

March 2020

STYPOL® 040-4502

PVC Bonding Resin

DESCRIPTION

STYPOL® 040-4502 is an unsaturated polyester laminating resin containing styrene monomer. It is specially formulated for building reinforced plastic parts using hand lay-up or spray-up processes.

BENEFITS & FEATURES

- Excellent product for rigid PVC bonding
- Good wet-out and air release

PROPERTIES – LIQUID

Property[1]	Unit	040-4502
NVM	%	58
Viscosity[2]	cps	600
Gel Time[3]	minutes	11

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield LVF Spindle #3 at 30 rpm
3) 1.5% DDM-9

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting	Laminate[2]	Test Method
Tensile Strength	psi	500,000	1,200,000	ASTM D 638
Tensile Modulus	psi	11,000	17,000	ASTM D 638
Tensile Elongation	%	3.8	1.9	ASTM D 638
Flexure Strength	psi	19,000	32,000	ASTM D 790
Flexure Modulus	psi	500,000	970,000	ASTM D 790

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Laminate: three plies of 1.5 ounce mat, 35-36% glass content. Laminates cured overnight and post-cured for 4 hours at 150°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-Reichhold products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of STYPOL® 040-4502 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.