PRODUCT BULLETIN

June 2019

STYPOL® 040-4539

Isophthalic Laminating Resin

DESCRIPTION

STYPOL® 040-4539 is a pre-promoted, thixotropic, isophthalic polyester resin containing styrene monomer. It is specifically formulated for building reinforced plastic parts using hand lay-up or spray-up processes.

BENEFITS & FEATURES

- Extremely fast wet and roll out; moderate trim time
- Develops Barcol hardness early with good cure in thin sections
- Excellent crack and craze resistance
- Excellent retention of physicals after water boil
- Mild corrosion resistance

PROPERTIES – LIQUID

Property(1)	Unit	040-4539
Appearance	-	Blue
NVM	%	52
Viscosity(2)	cps	500
Thix Index(3)	-	2.50 (Min.)
Gel Time(4)	minutes	22

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LV Spindle #3 at 60 RPM
3) Brookfield Viscometer LV Spindle #3 at 6/60 RPM
4) 1.25% MEKP-900

PROPERTIES – PHYSICAL

Property(1)	Unit	Neat Resin Casting(2)	Test Method
Tensile Strength	psi	8,200	ASTM D 638
Tensile Modulus	psi	580,000	ASTM D 638
Tensile Elongation	%	1.60	ASTM D 638
Flexure Strength	psi	16,200	ASTM D 790
Flexure Modulus	psi	540,000	ASTM D 790
Heat Deflection Temperature	°C/°F	78/172	ASTM D 648

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Stypol® 040-4539 initiated with 1.25% United Initiator's Norox® MEKP 900. Casting cured at room temperature and post cured for 4 hours at 150°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 STYPOL® 040-4539 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.