PRODUCT BULLETIN

May 2018

186-0616

Unsaturated Polyester Filament Winding Resin

DESCRIPTION

186-0616 is a pre-promoted, thixotropic, isophthalic unsaturated polyester resin formulated for spray-up, hand lay-up and filament winding applications. This resin is formulated for room temperature gel and cure with methyl ethyl ketone peroxide (MEKP) initiator. Suggested applications include marine applications, pools and spas, and filament winding.

BENEFITS & FEATURES

- Good mechanical properties
- Good impact and resilience
- Mild chemical and corrosion resistance
- Good handling characteristics

PROPERTIES – LIQUID

Property[1]	Unit	186-0616
Appearance	-	Green
NVM	%	55.2
Viscosity[2]	cps	525
Thix Index[3]	-	2.4
Gel Time[4]	minutes	21.3
Gel to Peak	minutes	17.0
Peak Exotherm	°C/°F	149/300
Weight per Gallon	lbs/gal	8.90
Styrene Content	%	44.8

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVT Spindle #3 at 50 RPM
3) Brookfield Viscometer RVT Spindle #3 at 5/50 RPM
4) 1.25%, Luperox DDM-9 MEKP

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Casting	Test Method
Tensile Strength	psi	12,000	ASTM D 638
Tensile Modulus	psi	535,000	ASTM D 638
Tensile Elongation	%	3.8	ASTM D 638
Flexure Strength	psi	19,000	ASTM D 790
Flexure Modulus	psi	607,000	ASTM D 790
Heat Deflection Temperature	°C/°F	84/183	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.

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 186-0616 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.

RELATED PRODUCTS

745-4635 (corrosion-resistant version)

SAFETY & WARRANTY

To receive a copy of our safety and warranty information, please email safetyandwarranty@polynt.com.