PRODUCT BULLETIN

March 2019

779-4772

Unsaturated Polyester Filament Winding Resin

DESCRIPTION

779-4772 is a pre-promoted, thixotropic, unsaturated polyester resin blend for the fabrication of reinforced fiberglass wound poles. The gel time of this resin is affected by catalyst concentration and temperature of the mandrel; and catalyst selection, humidity, fillers and other additives can cause variations in cure characteristics. For verification, we recommend that the fabricator check the cure characteristics of a small quantity of resin under his or her operating conditions. Suggested applications include filament winding, spray-up, and thin FRP parts.

BENEFITS & FEATURES

- Fast wet-out
- Slow draining
- Fast, even cure rate

PROPERTIES – LIQUID

Property[1]	Unit	779-4772
Viscosity[2]	cps	475
Thix Index[3]	-	3.2
Gel Time[4]	minutes	5.0
Gel to Peak	minutes	Record
Peak Exotherm	°C/°F	177/350
Weight per Gallon	lbs/gal	9.1

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVF Spindle #2 at 20 RPM
3) Brookfield Viscometer RVF Spindle #2 at 2/20 RPM
4) 1.2% TBPB at 82°C/180°F

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Casting, Cured Unfilled	Test Method
Tensile Strength	psi	13,000	ASTM D 638
Tensile Modulus	psi	565,000	ASTM D 638
Tensile Elongation	%	1.9	ASTM D 638
Flexure Strength	psi	15,000	ASTM D 790
Flexure Modulus	psi	543,000	ASTM D 790
Heat Deflection Temperature	°C/°F	78/172	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.

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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 779-4772 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.