PRODUCT BULLETIN

October 2020

768-7511-04

Unsaturated Polyester Resin

DESCRIPTION

768-7511-04 is a low viscosity resin that is promoted to cure at ambient temperature with MEKP systems. Suggested applications include use in polymer concrete and highly filled aggregate systems.

BENEFITS & FEATURES

- Fast wet-out
- Fast gel and cure rate
- Rapid mold cycling
- High filler loading

PROPERTIES – LIQUID

Property[1]	Unit	768-7511-04
Appearance	-	Brown
NVM	%	50
Viscosity[2]	cps	55
Moisture, Karl Fisher	%	0.14 (Max.)
Gel Time[3]	minutes	4
Gel to Peak	minutes	9
Peak Exotherm	°C/°F	157/315
Weight per Gallon	lbs/gal	8.9
Styrene Content	%	49.6

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LVT Spindle #1 at 30 RPM
3) 1.0% Norox® MEKP-925

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	10,000	ASTM D 638
Tensile Modulus	psi	481,000	ASTM D 638
Tensile Elongation	%	3.1	ASTM D 638
Flexure Strength	psi	17,000	ASTM D 790
Flexure Modulus	psi	519,000	ASTM D 790
Heat Deflection Temperature	°C/°F	59/138	ASTM D 648
Hardness, Barcol Model 934-1	HB	35	ASTM D 2583

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) 1.0% MEKP-925; Post-cured 16 hrs. @ 73°F and then 1 hr. @ 86°C and 2 hrs. @ 120°C

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 768-7511-04 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.