PRODUCT BULLETIN

November 2021

767-3072-55

Unsaturated Polyester RTM/Infusion Resin

DESCRIPTION

767-3072-55 is pre-promoted, unthixed, terephthalic blended, resin formulated for use in RTM, VARTM, and some infusion applications. This resin is promoted for room temperature gel and cure with methyl ethyl ketone peroxide (MEKP) and acetyl acetone peroxide (AAP) initiators. Suggested applications include use in RTM small to large parts.

This resin can be used for applications where the parts are exposed to typical municipal wastewater and sewage environments. For specific environments where this resin can be used contact Polynt Technical Assistance.

BENEFITS & FEATURES

- Low viscosity
- Good wetting
- Methyl ethyl ketone peroxide cure

PROPERTIES – LIQUID

Property(1)	Unit	767-3072-55
Appearance	-	Orange-brown
NVM	%	52
Viscosity(2)	cps	100
Gel Time(3)	minutes	55
Gel to Peak	minutes	50
Peak Exotherm	°C/°F	110/230
Weight per Gallon	lbs/gal	9.1
Styrene Content	%	43

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscosity RVT Spindle #3 at 50 RPM
3) 1.5% Luperox® DDM-9

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PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	9,000	ASTM D 638
Tensile Modulus	psi	460,000	ASTM D 638
Tensile Elongation	%	4.3	ASTM D 638
Flexure Strength	psi	17,000	ASTM D 790
Flexure Modulus	psi	487,000	ASTM D 790
Heat Deflection Temperature	°C/°F	50/122	ASTM D 648

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) Initiated with 1.5% Arkema Luperox® DDM-9; Cured 16 hrs room temperature, post-cured 4 hrs 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 767-3072-55 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.