PRODUCT BULLETIN

August 2023

777-8684-14

Unsaturated Polyester Resin

DESCRIPTION

777-8684-14 is a low viscosity, non-thixotropic, promoted, unsaturated polyester resin designed for infusion and general-purpose RTM.

BENEFITS & FEATURES

- Low viscosity
- Low cured color
- Rapid mold filling
- Can be filled

PROPERTIES – LIQUID

Property(1)	Unit	777-8684-14
NVM	%	60
Viscosity(2)	cps	200
Gel Time(3)	minutes	14
Gel to Peak	minutes	7
Peak Exotherm	°C/°F	191/375
Weight per Gallon	lbs/gal	9
Styrene Content	%	41 (Max.)

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVT Spindle #2 at 50 RPM
3) 1.50% Arkema Luperox® DHD-9

PROPERTIES – PHYSICAL

Property(1)	Unit	0.125" Clear Casting	Test Method
Tensile Strength	psi	9,000	ASTM D 638
Tensile Modulus	psi	565,000	ASTM D 638
Tensile Elongation	%	2.1	ASTM D 638
Flexure Strength	psi	18,000	ASTM D 790
Flexure Modulus	psi	515,000	ASTM D 790
Hardness, Barcol Model 934-1	HB	40	ASTM D 2583
Heat Deflection Temperature	°C/°F	77/170	ASTM D 648

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.

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 products available for commercial use.

SHELF LIFE & STORAGE

The shelf life of 777-8684-14 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.