PRODUCT BULLETIN

March 2019

784-7978

Vinyl Ester Laminating Resins

DESCRIPTION

784-7978 are pre-promoted, thixotropic vinyl ester resins designed for use in many laminating applications that require superior toughness and fatigue resistance. The composition of 784-7978 resins complies with FDA regulation 21 CFR 177.2420. When properly formulated and cured, this resin can be used to fabricate equipment intended for repeated contact with food. Suggested applications include marine, pools and spas, barrier coats, acrylic adhesion and automotive parts.

BENEFITS & FEATURES

- Excellent mechanical properties
- Water resistance
- Chemical and corrosion resistance
- High heat deflective temperature

PROPERTIES – LIQUID

Property(1)	Unit	784-7978-30	784-7978-45
Appearance	-	Purple	Purple
Viscosity(2)	cps	450	450
Thix Index	-	2.5	2.5
Gel Time(3)	minutes	30.5	48
Gel to Peak	minutes	20	-
Peak Exotherm	°C/°F	168/335	168/335
Weight per Gallon	lbs/gal	8.6	20 (Max.)
Styrene Content	%	44.7	45.4

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVT Spindle #3 at 50 RPM
3) 1.25% MEKP-925

PROPERTIES – PHYSICAL

Property(1)	Unit	0.125" Cured Unfilled Castings	Test Method
Tensile Strength	psi	12,000	ASTM D 638
Tensile Modulus	psi	489,000	ASTM D 638
Tensile Elongation	%	5.0	ASTM D 638
Flexure Strength	psi	21,000	ASTM D 790
Flexure Modulus	psi	525,000	ASTM D 790
Heat Deflection Temperature	°C/°F	110/230	ASTM D 648
Hardness, Barcol Model 934-1	HB	33	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 784-7978 resins 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

784-7973 (100% vinyl ester at 12 minute gel time)
784-7976 (100% vinyl ester at 22 minute gel time)
784-7977 (100% vinyl ester at 28 minute gel time)
789-7775 (vinyl ester blend at 20 minute gel time)
789-7775-25 (vinyl ester blend at 25 minute gel time)
789-7778 (vinyl ester blend at 30 minute gel time)

SAFETY & WARRANTY

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