PRODUCT BULLETIN

June 2018

712-3765

Unsaturated Polyester Laminating Resin

DESCRIPTION

712-3765 is an orthophthalic, polyester-based laminating resin that is thixed and promoted for room temperature cure with methyl ethyl ketone peroxide (MEKP) initiator. Suggested applications include general purpose laminating, small to large job parts, difficult to process parts, mannequins and furniture, and acrylic spas and baths.

BENEFITS & FEATURES

- Orthophthalic resin chemistry
- Low viscosity for unfilled laminating applications
- Non-draining
- Medium trim window
- Good wet-out
- Excellent mechanical properties

PROPERTIES – LIQUID

Property(1)	Unit	712-3765
Appearance	-	Blue
NVM	%	55
Viscosity(2)	cps	490
Thix Index(3)	-	3.0
Gel Time(4)	minutes	17
Gel to Peak	minutes	18
Peak Exotherm	°C/°F	149/300
Weight per Gallon	lbs/gal	8.9
Styrene Content	%	43

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVT Spindle #3 at 50 RPM
3) Brookfield Viscometer RVT Spindle #3 at 5/50 RPM
4) 1.0% MEKP-925

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Casting	Test Method
Tensile Strength	psi	10,000	ASTM D 638
Tensile Modulus	psi	600,000	ASTM D 638
Tensile Elongation	%	1.8	ASTM D 638
Flexure Strength	psi	14,000	ASTM D 790
Flexure Modulus	psi	700,000	ASTM D 790
Heat Deflection Temperature	°C/°F	62/144	ASTM D 648
Hardness, Barcol Model 934-1	HB	45	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 712-3765 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

712-3766

SAFETY & WARRANTY

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