PRODUCT BULLETIN

December 2023

733-2246

Low Styrene Polyester Laminating Resin

DESCRIPTION

733-2246 is a promoted, thixed, unsaturated polyester resin intended for room temperature cure with methyl ethyl ketone peroxide (MEKP) initiator. It is a low styrene content resin with a maximum of 35% styrene by weight and/or a low VOC resin with a VOC emission of less than 60 grams per square meter. Suggested applications include general purpose laminating, RV parts, car parts, and boat parts.

BENEFITS & FEATURES

- Low viscosity
- Less than 35% styrene
- Medium to slow trim and cure time

PROPERTIES – LIQUID

Property[1]	Unit	733-2246
Appearance	-	Blue
NVM	%	64.5
Viscosity[2]	cps	530
Thix Index[3]	-	3.0
Gel Time[4]	minutes	22
Gel to Peak	minutes	14
Peak Exotherm	°C/°F	156/312
Weight per Gallon	lbs/gal	8.85
Styrene Content	%	34.0

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% United Initiators Norox® MEKP-925

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Casting, MEKP-925 Initiator	Laminate[2]	Test Method
Tensile Strength	psi	10,000	17,000	ASTM D 638
Tensile Modulus	psi	482,000	1,260,000	ASTM D 638
Tensile Elongation	%	2.14	2.1	ASTM D 638
Flexure Strength	psi	15,000	36,000	ASTM D 790
Flexure Modulus	psi	500,000	1,240,000	ASTM D 790
Heat Deflection Temperature	°C/°F	91/195	-	ASTM D 648
Hardness, Barcol Model 934-1	HB	32	40	ASTM D 2583

1) Physical properties were determined using internal Polynt test methods that are similar to those listed above.
2) 3 layers M-723 Chopped Strand Mat, 33% glass/67% Resin, 1.25% United Initiators Norox® MEKP-925 Initiator

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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 733-2246 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.