PRODUCT BULLETIN

September 2023

733-8495 Series

Polyester Laminating Resin

DESCRIPTION

733-8495 Series resins are isophthalic/DCPD blends, thixed and promoted laminating resins specifically formulated to meet the unique demands of boat builders. These resins exhibit excellent cure and Barcol hardness in thin and thick laminates without building excessive heat. The shrinkage is very low, giving excellent cosmetic properties. Suggested applications include hand lay-up, spray-up, marine, and transportation.

BENEFITS & FEATURES

- Low exotherm
- Low styrene emissions
- Long trim time
- Even cure in thick and thin laminates
- Good wet-out
- Good blister resistance

PROPERTIES – LIQUID

Property(1)	Unit	733-8495-28	733-8495-30	733-8495-34	733-8495-38	733-8495-42	733-8495-52
NVM	%	-	-	66	66	66	66
Viscosity(2)	cps	625	500	625	625	625	625
Thix Index(3)	-	4.6	3.0	3.5 (Min.)	3.8 (Min.)	3.8 (Min.)	3.8 (Min.)
Gel Time(4)	minutes	30	30	34	38	42	52
Peak Exotherm	°C/°F	138/280	-	138/280	138/280	138/280	129/265
Weight per Gallon	lbs/gal	9.15	9.15	9.15	9.15	9.15	9.15
Styrene Content	%	35 (Max.)	31.7	35 (Max.)	35 (Max.)	35 (Max.)	35 (Max.)

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LVT Spindle #3 at 60 RPM
3) Brookfield Viscometer LVT Spindle #3 at 6/60 RPM
4) 1.5% United Initiators Norox® MEKP-9

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Cured Unfilled Castings	Test Method
Tensile Strength	psi	8,000	ASTM D 638
Tensile Modulus	psi	538,000	ASTM D 638
Tensile Elongation	%	1.9	ASTM D 638
Flexure Strength	psi	16,000	ASTM D 790
Flexure Modulus	psi	563,000	ASTM D 790
Heat Deflection Temperature	°C/°F	93/200	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

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 733-8495 Series 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.

SAFETY & WARRANTY

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