PRODUCT BULLETIN

July 2018

733-5974 Series

Unsaturated Polyester Resin

DESCRIPTION

733-5974 Series resins are thixotropic, low HAPs, promoted resins formulated for the fabrication of a variety of reinforced fiberglass products. They are medium reactivity DCPD isophthalic blends for lower profile applications. Suggested applications include hand lay-up, spray-up, marine, transportation, general purpose laminating, and FRP parts.

BENEFITS & FEATURES

- Fast wet-out
- Low exotherm
- Non-draining
- Good trim time
- Low profile

PROPERTIES – LIQUID

Property[1]	Unit	733-5974-20	733-5974-30
Appearance	-	Amber	Amber
Viscosity[2]	cps	500	500
Thix Index[3]	-	3.2 (Min.)	3.9
Gel Time[4]	minutes	20	30
Gel to Peak	minutes	17.5	21
Peak Exotherm	°C/°F	132/270	124/255
Weight per Gallon	lbs/gal	9.1	9.1
Styrene Content	%	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 6/60RPM
4) 1.5% DDM-9

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Cured Unfilled Castings	Test Method
Tensile Strength	psi	8,000	ASTM D 638
Tensile Modulus	psi	503,000	ASTM D 638
Tensile Elongation	%	1.8	ASTM D 638
Flexure Strength	psi	17,000	ASTM D 790
Flexure Modulus	psi	532,000	ASTM D 790
Heat Deflection Temperature	°C/°F	102/215	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 733-5974 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.