PRODUCT BULLETIN

January 2023

718-3594-07

Flexible Unsaturated Polyester Resin

DESCRIPTION

718-3594-07 is a promoted unsaturated polyester resin formulated for use in casting and laminating applications that require a high level of flexibility. It can be cured with methyl ethyl ketone peroxide initiators (MEKP). Suggested applications include laminating, casting, and surface coating-sealing.

BENEFITS & FEATURES

- Highly flexible
- Fast cure
- Fast dry – no surface tack
- Vapor suppressed

PROPERTIES – LIQUID

Property[1]	Unit	718-3594-07
Appearance	-	Red-Brown
NVM	%	68
Viscosity[2]	cps	490
Gel Time[3]	minutes	6.9
Gel to Peak	minutes	17
Peak Exotherm	°C/°F	99/210
Weight per Gallon	lbs/gal	9.3
Styrene Content	%	32

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

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Casting, BPO Cure	Test Method
Tensile Strength	psi	673	ASTM D 638
Tensile Modulus	psi	1,000	ASTM D 638
Tensile Elongation	%	78	ASTM D 638
Heat Deflection Temperature	°C/°F	< 25/77	ASTM D 648

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 718-3594-07 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.