PRODUCT BULLETIN

February 2026

Polynt A 5445 IA

Unsaturated Polyester Infusion Resin

DESCRIPTION

Polynt A 5445 IA is a pre-promoted, isophthalic unsaturated polyester resin. Polynt A 5445 IA is specially formulated for use as an infusion resin. This resin is formulated for room temperature gel and cure with methyl ethyl ketone peroxide (MEKP) initiator.

BENEFITS & FEATURES

- Good mechanical properties
- Good impact resistance and resilience
- Good handling characteristics

PROPERTIES – LIQUID

Property[1]	Unit	5445 IA
NVM	%	53
Viscosity[2]	cps	163
Gel Time[3]	minutes	22
Gel to Peak	minutes	15
Peak Exotherm	°C/°F	142/288
Hardness, Barcol Model 934-1	HB	51
Weight per Gallon	lbs/gal	8.95
Styrene Content	%	46

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer RVF Spindle #2 at 50 RPM
3) 1.50 g United Initiators Norox® MEKP-900 per 100 g resin

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting[2]	Test Method
Tensile Strength	psi	9,000	ASTM D 638
Tensile Elongation	%	4.14	ASTM D 638
Flexure Strength	psi	15,000	ASTM D 790
Flexure Modulus	psi	430,000	ASTM D 790
Heat Deflection Temperature	°C/°F	53/127	ASTM D 648
Hardness, Barcol Model 934-1	HB	35	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 Polynt A 5445 IA 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.