PRODUCT BULLETIN

January 2024

741-6510

Unsaturated Polyester Pultrusion Resin

DESCRIPTION

741-6510 is a non-promoted, non-thixotropic, isophthalic base resin for use in FDA approvable and/or corrosion-resistant applications. Suggested use is for pultruded panels and structures.

BENEFITS & FEATURES

- Excellent physical strength
- High reactivity
- FDA approvable
- Corrosion resistance
- Resistant to organic and inorganic acids
- Resistant to gasoline and other fuels

PROPERTIES – LIQUID

Property[1]	Unit	741-6510
Color	-	4.0 (Max.)
NVM	%	67.0
Acid Value, NVM	-	15.0
Viscosity[2]	cps	4,950
SPI Gel Time (150-190°F)[3]	minutes	8
SPI Gel 190°F to Peak	minutes	2
SPI Peak Exotherm	°C/°F	216/420
Water Content	%	0.06 (Max.)

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer SSA #27 at 20 RPM
3) 1.0% BPO

PROPERTIES – PHYSICAL

Property[1]	Unit	0.125" Casting, Cured Unfilled Castings, 50% NVM	Test Method
Tensile Strength	psi	10,000	ASTM D 638
Tensile Modulus	psi	542,000	ASTM D 638
Tensile Elongation	%	2.30	ASTM D 638
Flexure Strength	psi	19,000	ASTM D 790
Flexure Modulus	psi	529,000	ASTM D 790
Heat Deflection Temperature	°C/°F	110/230	ASTM D 648
Hardness, Barcol Model 934-1	HB	44	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 741-6510 is 180 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.