PRODUCT BULLETIN

May 2018

DION® 31346

Bisphenol-Epoxy Vinyl Ester Resin

DESCRIPTION

DION® 31346 is a special non-styrenated resin designed for heat-cure applications. The special chemistry of this resin yields a virtually odor-free resin that has exceptional temperature resistance and mechanical properties.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Very good high-temperature stability, resistance to a wide variety of corrosive environments and tough, crack and stress-fatigue resistant laminates due to premium epoxy vinyl ester polymer
- Low odor due to product being free of styrene monomer
- Excellent processing characteristics due to low viscosity

PROPERTIES – LIQUID

Property(1)	Unit	31346
NVM	%	79.5
Viscosity(2)	cps	14,000
SPI Gel Time(3)	minutes	11.0
SPI Cure	minutes	1.5
SPI Peak Exotherm	°C/°F	167/333
Specific Gravity	-	1.15
Flash Point (Seta Closed Cup)	°C/°F	154/310

1) All properties at 25°C/77°F unless otherwise noted
2) Brookfield Viscometer LV Spindle #4 at 20 RPM
3) Initiator: 1.0 g of Luperox A98 + 1.0 g of styrene per 100.0 g of resin

PROPERTIES – PHYSICAL

Property(1)	Unit	Neat Resin Casting	Test Method
Tensile Strength	psi	9,000	ASTM D 638
Tensile Modulus	psi	470,000	ASTM D 638
Tensile Elongation	%	2.3	ASTM D 638
Flexure Strength	psi	17,000	ASTM D 790
Flexure Modulus	psi	550,000	ASTM D 790
Heat Deflection Temperature	°C/°F	143/290	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 DION® 31346 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.