PRODUCT BULLETIN

January 2019

DION® 31068-00

Low Styrene, UV Stable, Medium-High Reactivity Pultrusion Resin

DESCRIPTION

DION® 31068-00 is a low styrene, UV stable, medium-high reactivity, resilient terephthalic polyester resin designed for the pultrusion process.

Composite profiles designed and produced with this resilient resin system are tough and can yield profiles that are crack and craze resistant. The medium to high reactivity of this resin allows for the pultrusion of thick sections that do not exhibit cracking. Applications include; structural shapes, ladders, tool handles, and cross arms.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Excellent resistance to impact cracking, high flexural strength and suitable for pultruding complex shapes due to high strength and toughness
- UV stabilized to improve UV resistance
- Fast wet-out yielding faster line speeds, higher filler loading, and capable of direct injection due to low viscosity
- High quality finish/glossy surface and thick cross sections without cracking due to medium-high reactivity

PROPERTIES – LIQUID

Property(1)	Unit	31068-00
NVM	%	70
Viscosity(2)	cps	750
SPI Gel Time(3)	minutes	4.8
SPI Cure	minutes	1.8
SPI Peak Exotherm	°C/°F	210/427
Weight per Gallon	lbs/gal	9.31
Specific Gravity	-	1.12
Flash Point (Seta Closed Cup)	°C/°F	32/89

1) All properties at 25°C/77°F
2) Brookfield Viscometer RV Spindle #2 at 20 RPM
3) 1.0% BPO crystals by weight per 100 g of resin

PROPERTIES – PHYSICAL

Property[1]	Unit	Neat Resin Casting	Test Method
Tensile Strength	psi	11,000	ASTM D 638
Tensile Modulus	psi	547,000	ASTM D 638
Tensile Elongation	%	4.0	ASTM D 638
Flexure Strength	psi	19,000	ASTM D 790
Flexure Modulus	psi	428,000	ASTM D 790
Heat Deflection Temperature	°C/°F	82/180	ASTM D 648

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® 31068-00 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.

RELATED PRODUCTS

POLYLITE® 31516-00 Medium-high reactivity resilient terephthalic
DION® 31031-00 Resilient isophthalic
DION® 31031-01 UV stabilized resilient isophthalic

SAFETY & WARRANTY

To receive a copy of our safety and warranty information, please email safetyandwarranty@polynt.com.