PRODUCT BULLETIN

November 2023

DION® 382A

Flaked Bisphenol-A Fumarate Resin

DESCRIPTION

DION® 382A is a monomer-free, bisphenol-A polyester in flaked form without solvents, crosslinking monomers, or external flow additives. DION® 382A is typically used as styrene soluble binder for fiberglass reinforcement products. DION® 382A when mixed with monomer produces parts with high crosslinking density and excellent corrosion resistance in a wide range of aggressive environments.

BENEFITS & FEATURES

- Batch-to-batch consistency and uniformity from production utilizing Statistical Process Control (S.P.C) & Statistical Quality Control (S.Q.C) techniques
- Propoxylated bisphenol-A fumarate polyester, with high tensile properties in chopped strand mat reinforcement
- High molecular weight, coupled with melting and rheological properties permits production of thermoformable mat with good properties and excellent corrosion resistance with styrene version laminates
- Compatibility and good solution rate properties with styrene, leading to good appearance, workability, and air release upon preparation of FRP laminates due to solubility in styrene and most organic solvents

PROPERTIES – LIQUID

Property(1)	Unit	382A
Acid Number	mg/g	15(maximum)
Ring & Ball Softening Point	°C/°F	100/212
Viscosity(2)	cps	500
Bulk Density	lb/cu.ft	35
Melt Index, 2,160 gm, 115°C	g/10min	7-14
Tg, by DSC, midpoint, 10°C/min ramp First Heat Second Heat	 °C/°F °C/°F	 63/145 56/133

1) All properties at 25°C/77°F unless otherwise noted
2) 50% in styrene

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 DION® 382A is 48 months 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.