Neoprene 671A

Liquid Dispersion

TECHNICAL INFORMATION – November 2015

Neoprene 671A Liquid Dispersion contains a high modulus polychloroprene homopolymer made in an anionic colloidal system.

Table 1 - Typical Liquid Dispersion Properties

Polymer Type	Polychloroprene
Emulsifying agent	Potassium salts of disproportionated resin acids and fatty acid and polymerized potassium salts of alkyl naphthalene sulfonic acid.
Solids, % by weight	59
pH at 25°C [77°F]	>12.0
Specific Gravity at 25°C [77°F]	
Polymer	1.23
Dispersion	1.13
Brookfield viscosity at 25°C, mPa·s (Brookfield viscometer, Model LVF, Spindle No. 1)	
30 rpm	45
Stability	
Mechanical	Good
Electrolyte	Good
Storage	Good
Freeze/thaw	Not Stable

* These data are presented to describe Neoprene 671A and are not intended to serve as specifications.

Main Features

Wet Gel Strength

Good wet gel elongation and wet gel tensil strength make wet films of Neoprene 671A resistant to gel cracking, either alone or in blends with other Neoprene liquid dispersions such as Neoprene 571 or Neoprene 842A.

High Solids with Low Viscosity

Neoprene 671A has a high solids content with a viscosity only slightly greater than that of conventional 50% solids Neoprene liquid dispersions. Coagulant dipping deposition rate is higher than that obtained with 50% solids liquid dispersions.

Suggested End Uses

- Dipped goods
- Laminating adhesives
- Impregnated paper
- Contact bond adhesives
- Construction mastics
- Extruded thread
- Bonded batts

Handling and Storage

Before handling Neoprene liquid dispersion, be sure to read the following references "Guide to Safety in Handling and FDA Status of Neoprene Liquid Dispersions" and "Transfer and Storage of Neoprene Liquid Dispersions."

Information on European Union Dangerous Preparations Directive 1999/45/EC related to Colophony Skin Sensitizaton

Colophony is classified as a skin contact sensitizer under European Union Dangerous Preparations Directive 1999/45/EC effective July 30, 2002. This Directive requires labeling of products that contain colophony at levels equal to or greater than 0.1% (refer to the Directives for specific details). Solid (dry type) Neoprene adhesives grade products manufacture by Denk Performance Elastomer LLC contain about 4% colophony (CAS No. 8050-09-7). Toxicological tests have demonstrated that dry Neoprene is not a skin sensitizer. Because of this testing, dry Neoprene polymer is not subject to mandatory labeling under the above Directive despite the presence of the colophony. However, when these Neoprene adhesive grade products are dissolved in organic solvents, the colophony may still be present at concentrations up to 0.8% depending on the solids content of the solutions. In the absence of data showing the adhesive is not a skin sensitizer, the adhesive could be subjext to the above EU regulation.

We recommend that manufactures and marketers of adhesive solutions based on Denka Performance Elastomers' Neoprene (dry type) adhesive grade products determine whether the colophony level is above 0.1%. If the manufactured preparation has a colophony content of less than 0.1% it will not be subject to mandatory labeling (provided no other consitituents necessitate mandatory labeling). Manufactured preparations that contain higher colophony contents will require the labeling and/or container notices described in the Directive.

Contact Denka at the following location:

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Denka