



Neoprene WB

TECHNICAL INFORMATION – November 2015

A non-staining polychloroprene that contains a high percentage of gel polymer.

Typical Polymer Properties	
Physical Form	Chips
Color	White to silvery grey
Specific Gravity at 25/4°C, ASTM D7920-66 (1979)	1.23
Mooney Viscosity, ML 1+4 at 212 °F [100 °C]	43 - 52
Crystallization Rate	Medium
Storage Stability	Excellent. Little or no change in viscosity or scorch characteristics during storage, especially if stored under cool, dry conditions.

* These data are presented to describe Neoprene WB, and are not intended to serve as specifications.

Processing and Performance Features

- Outstanding Processing Characteristics**
 Neoprene WB contains a high percentage of gel polymer, which gives it better processing characteristics than any other type of Neoprene. Compounds base on Neoprene WB are firm and have very low nerve. They are fast-extruding, yield smooth extrudates with good collapse resistance, sharp die definition and low die swell. They also calender well, yielding smooth sheets with low shrinkage.
- Reduced Vulcanizate Strength**
 Vulcanizates of Neoprene WB have the good resistance to heat aging and compression set that is typical of the Neoprene W family. However, because of its gel content, vulcanizates of Neoprene WB are lower in tensile strength, elongation, tear strength and resistance to flex cut growth than are vulcanizates of Neoprene W. For this reason, Neoprene WB is most often used in blends with other types of Neoprene to improve processing at minimum sacrifice in vulcanizate strength.

Handling Precautions

Neoprene WB has no known health hazards. However, it should be handled in accordance with good industrial hygiene practices. For additional information, read Denka Performance Elastomer LLC reference “ Guide for Safety and Handling and FDA Status of Neoprene Solid Polymers”, and observed the precautions noted therein.

The compounding ingredients used with Neoprene WB to prepare finished products may present health hazards in handling and use. Before proceeding with any compounding work, consult and follow label directions and handling precautions from supplies of all ingredients. Read and heed the product labels.

Neoprene can accumulate a static charge during shipping, unloading, conveying, or pouring from the bag. To avoid hazards associated with a static electric discharge, provide adequate grounding of equipment and personnel while handling Neoprene WB in the vicinity of flammable vapors or dusts. See National Fire Protection Association (NFPA) RP77 “Recommended Practice on Static Electric.”

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