



OMNABOND™

Self-Crosslinking Styrene Butadiene Emulsion Polymers

OMNABOND self-crosslinking styrene butadiene latex polymers have been developed for specialty nonwoven applications.

Recommended uses of **OMNABOND** latexes include applications that require ultra high wet strength/hand balance, solvent resistance, good color stability and color fastness for a variety of nonwoven substrates with very low levels of formaldehyde. In addition, these products comply with 21 CFR FDA 176.170 and 176.180.

TYPICAL PROPERTIES*

Property*	OMNABOND 2463	OMNABOND 2428	OMNABOND 2469	OMNABOND 2479
Tg (°C)	-25	-5	+10	+35
% Solids	48.5 - 51.5	48.5 - 51.5	48.5 - 51.5	48.5 - 51.5
pH	7.3 – 8.3	7.3 – 8.3	7.3 – 8.3	7.3 – 8.3
Viscosity (cps)@ 25°C Brookfield	<200	<200	<200	<200
Residue (ppm)	<100	<100	<100	<100
Surface Tension (dynes/cm)	30 - 40	30 - 40	30 - 40	30 - 40

* Not actual product specifications

CHEMICAL/MECHANICAL

Mechanical/Shear Stability.....Excellent
 Multivalent Ion Stability.....Excellent
 Shelf Life.....Excellent
 Foam.....Low
 Odor.....Low
 Emulsifier.....Anionic

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OMNABOND latexes offer a number of advantages over conventional styrene butadiene emulsions, including improved wet and dry tensile properties, filler acceptance, color fastness, caustic resistance, and adhesion to both synthetic and natural fibers. When compared to current commercially available self-crosslinking products, OMNOVA's **OMNABOND** latexes feature considerably lower levels of formaldehyde.

The wet tensile strength performance of **OMNABOND** latexes make them ideal for a number of short- and long-life nonwovens applications such as towels, wipes and filtration media. These high strength properties enable lower binder levels, which makes **OMNABOND** latexes an excellent substitute for other polymer chemistries, including vinyl acetate ethylene copolymers, (VAE) and acrylic polymers. Additionally, their accelerated cure rate reduces or eliminates the need for an external catalyst to achieve optimal performance. They also can be combined with external cross-linkers, like melamine and urea formaldehyde (UF) resins for long-life applications, including commercial roofing binders.

Key Advantages of OMNABOND Latexes:

- Excellent wet and dry tensile properties
- Fast curing without post-added catalyst
- Excellent mechanical/shear stability
- Accepts high filler levels
- Ultra low formaldehyde
- FDA compliant: 21 CFR 176.170 & 180

OMNABOND latexes can be applied by spraying, printbond, saturation, roll/knife coating, or can be formulated for foam applications.

With compounding, properties of **OMNABOND** latexes can be altered to meet specific performance requirements (e.g. chemical resistance, increased strength, filler acceptance, hydrophobicity/hydrophilicity, hand, tack, etc.). Contact your OMNOVA Solutions representative for information on specific applications or needs.

Storage and Handling:

OMNABOND latexes have a recommended shelf life of six months and should be kept in tightly sealed containers. The recommended storage temperature is 65° - 80°F (18° - 27°C) and the products should be protected from frost or extremely high temperature conditions.

NOTE:

Although the data supplied above is believed to be accurate, each user is advised to make an independent determination as to whether the described product(s) is/are appropriate for a particular use or application, whether such use will comply with all applicable laws or regulations, or whether such use will infringe the intellectual property rights of third parties.



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06/09