

NorthStar Elastomers

Custom Polymer Solutions

TECHNICAL DATA SHEET

Product Name: Norst® PB-404-44

Product Description

Norst® PB-404-44: Is a highly modified polyisobutylene polymer that exhibits high tack and cold flow over a very wide temperature range, stable to 800°F (427°C). It is impermeable to water or oxygen. It has good tensile and bond strength, high film strength, permanent tackiness, excellent aging/weather resistance, low stain, low electrical conductivity. It is odorless, colorless, and highly stable. Chemical resistance is comparable to other polyisobutylene polymers. *PB-404-44 can be used as a high performance additive in any non-aqueous system where high tack and elasticity are needed.*

Typical Properties

Viscosity Range: 240,000 to 280,000 cps @350°F (177°C)
Viscometer Type: Brookfield HBT, # 6 spindle, 20 RPM

Density: 0.91 g/cc (at 20°C)

Penetration Range: 175-225 (cone penetrometer, 150 gm weight, 5 seconds at 77°F)

Volatility: 0.17 wt % (% at 105°C for 2 hr, g/100g)

Classification: Proprietary polyisobutylene polymer. 100% solids.
Available at 50%-70% solids in mineral spirits.

Color: Light amber

Uses

Adhesives: High tack and elasticity in PSA adhesives; water and gas proof barrier in sealing tapes; cold flow properties make it ideal for use in "self-healing" barrier products; functional at very high temperatures, up to 800°F (427°C).

Sealants: Waterproof and gas proof barrier; excellent tack and elasticity for sealants and mastics; cold flow over a wide temperature range in "self-healing" products; good internal cohesive strength.

Products

Industrial and nonwoven adhesives, high temperature autoclave tapes and other specialty barrier tapes, electrical insulation, window and door sealants, waterproofing compounds, etc.

Substrates and Systems – Chemistry Non-Polar

Core structure: Distinctly branched aliphatic which gives excellent chemical, weather and oxidation resistance, stability and low color. Best functioning in butyls, EPM/EPDM, microcrystalline wax, asphalt and, polypropylene, HDPE, LDPE, polyisobutylene, etc.

Diluents and carriers: Aliphatic and naphthenic solvents work very well.

Suitable for solvent-based composition hot melt adhesive and sealant applications, and can be formulated with other polymers, resins, fillers, pigments, oils, thickeners, waxes and stabilizers to obtain a desired balance of properties. Avoid strong oxidizers.

NorthStar Elastomers provides broad product modification opportunities through blending of custom polymers to modify tack, elasticity, temperature stability, etc.

Polar polymers: (Such as urethanes, acrylics, polyesters and polyamides) are generally incompatible. Avoid polar solvents.

Packaging

45 pound boxes; 350 pound open head drums.

Quick Release boxes available. Drums are coated for clean, efficient unloading.

25 pound Quick Release boxes also available.

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USE ONLY WITH APPROVED EQUIPMENT*

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