

NorthStar Elastomers

Custom Polymer Solutions

TECHNICAL DATA SHEET

Product Name: Norst® PB-600

Product Description

Norst® PB-600: Is a highly modified butyl polymer that exhibits moderate tack, relatively high melt point, with no cold flow. It is impermeable to water or oxygen. It has good tensile and bond strength, high film strength, stabilizes tack, excellent aging/weather resistance, low stain, low electrical conductivity. It is odorless, colorless, and highly stable. Chemical resistance is comparable to polyisobutylene polymers. *PB-600 can be used as a high performance additive in any non-aqueous system where good tack and stability are needed.*

Typical Properties

Viscosity Range: NSE lab - historic
100,000 – 120,000 cps at 350°F (177°C)
Viscometer Type: Brookfield HBT, # 6 spindle, 50 RPM

Penetration Range: 20-30 (cone penetrometer, 50 gm weight, 5 seconds at 177°C)

Ring and Ball: Softening point is 280-300°F

Classification: Proprietary butyl polymer. 100% solids

Color: Light grey to light amber

Uses

Adhesives: Stabilizes tack propertis, builds heat resistance in hot melt adhesives; raises Ring and Ball in typical formulation, water and gas proof barrier in sealing tapes.

Sealants: Waterproof and gas proof barrier; excellent tack stabilizer for caulks, sealants and mastics; good internal cohesive strength.

Products

Industrial and nonwoven adhesives, tapes, construction mastics and caulks, roofing membranes, bitumen modification, 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 asphalt, butyls, EPM/EPDM, microcrystalline wax, and polypropylene, HDPE, LDPE, polyisobutylene, etc.

Diluents and carriers: Aliphatic resins, oils and rubber work very well. There may be compatibility problems with resins that contain aromatics.

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

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 & Storage

Solid block form in boxes, 45 pounds net.

Crumb form in boxes, 40 pounds net.

Store under standard warehouse conditions - dry environment, temperature range 40-100°F.
Shelf life minimum of 12 months.

*KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL OR INDUSTRIAL USE ONLY
USE ONLY WITH APPROVED EQUIPMENT*

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