

NorthStar Elastomers

NORST® CUSTOM POLYMERS PROPERTIES CHART

POLYMER CHARACTERISTICS	PB 402-24	PB 400	PB 500	PB 600	PB 800	PB 4015	B 1620	M-45
VISCOSITY RANGE @ 350°F	240,000-280,000 cps	50,000-55,000 cps	75,000-95,000 cps	100,000-120,000 cps	200,000-240,000 cps	30,000-50,000 cps	50,000-100,000 cps	560,000 cps @75°F
MAXIMUM TEMPERATURE	+450°F	+450°F	+450°F	+450°F	+450°F	+450°F	+450°F	+300°F
Variant Max SOFTENING POINT	+650°F +800°F	350°F+	350°F+	275°F+			350°F+	4-5MM cps @75°F
HARDNESS	Very Soft	Hard	Hard	Very Hard	Moderate	Hard	Hard	Soft
COLD FLOW	Yes to -70°F	No	No	No	No	No	No	Yes
FORM	Viscous Liquid 100% solids PIB polymer	Block 100% solids Butyl ethylene propylene rubber base	Block 100% solids Butyl ethylene propylene rubber base	Block 100% solids Butyl ethylene propylene rubber base	Block 100% solids Butyl compound	Block 100% solids Butyl ethylene propylene rubber base	Block 100% solids Butyl ethylene propylene rubber base	Viscous Liquid 45% solids Butyl rubber base in mineral spirits
PACKAGING	45 lb Box 350 lb Drum	45 lb Box	45 lb Box 350 lb Drum	45 lb Box	45 lb Box	45 lb Box	45 lb Box	350 lb Drum
SPECIAL PACKAGING	25 lb Box Quick Release Box 50%-70% Solids	Quick Release Box 50%-70% Solids	Quick Release Box 50%-70% Solids	Crumb - 40 lb Box Quick Release Box 50%-70% Solids	Quick Release Box 50%-70% Solids	Quick Release Box 50%-70% Solids	Stick Cut Block Quick Release Box 50%-70% Solids	55% Solids
COMPATIBLE OTHER RESINS (avoid aromatic resins & polar solvents)	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc	Y Aliphatic resins, oils, asphalts polybutenes rubbers, etc
GOOD ELECTRICAL PROPERTIES	Y	Y	Y	Y	Y	Y	Y	Y
RESISTANT TO WEATHERING	Y	Y	Y	Y	Y	Y	Y	Y
WATERPROOF	Y	Y	Y	Y	Y	Y	Y	Y
CHEMICAL RESISTANCE	compare to PIB	compare to PIB	compare to PIB	compare to PIB	compare to PIB	compare to PIB	compare to PIB	compare to PIB
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NSE INTERNAL COMPARISON	PB 402-24	PB 400	PB 500	PB 600	PB 800	PB 4015	B 1620	M-45
VISCOSITY	5	2	2	3	5	2	2	1
SOFTENING POINT	1	5	8	7	10	5	5	1
TACK	10	2	4	6	7	9	2	
ELASTICITY	10	4	7	6	10	9	5	
STRENGTH	7	10	9	6	8	7	7	5
HARDNESS	2	7	8	10	6	8	8	1
COLOR	Lt Grey - Lt Amber	Grey - Amber	White - Lt Grey	Lt Grey - Lt Amber	Lt Amber - Lt Brown	White - Brown	Amber - Brown	White - Lt Grey
Notes: Numbers relate to one another - 1 Lowest, 10 Highest Hardness per ASTM D-5-49								
TYPICAL USAGE	PB 402-24	PB 400	PB 500	PB 600	PB 800	PB 4015	B 1620	M-45
PSA	X	X			X	X	X	
HOT MELT SEALANTS		X	X	X	X			
EXTRUDED SEALANTS	X	X				X		
PUMP GRADE SEALANTS	X	X				X		
ASPHALT MODIFICATION	X		X	X	X		X	
BUTYL ADHESIVES	X	X						X
HOT MELT ADHESIVES	X	X	X	X	X		X	
MASTIC TAPE				X				
HOT MELT RUBBERS							X	
PUMP GRADE BUTYL CAULKS						X		
PUMP GRADE BUTYL SEALANTS		X				X		