

# BoKure™ Urethane

## The Cure for Your Urethane Needs

BoKure™ is Hi-Tech Seals' family of high-quality urethane material. It is composed of numerous compounds including B701, B713, B801, B831, B843, B931, B951, B301, and MU90. Our BoKure™ compounds offer excellent characteristics that help save customers money by increasing product longevity, equipment run time, and reducing costly maintenance.

BoKure™ urethane is a great alternative when looking to replace rubber, plastic, and metal components or where impact, corrosion, and wear is a concern. With its versatile nature BoKure™ urethane can be used for products such as rollers, spacers, protector products, impact pads, ring type joint (RTJ) gaskets for testing, and more. Our experienced staff can help design and manufacture standard or custom BoKure™ urethane components. If required, we can reverse engineer components with low tooling costs.

Each BoKure™ cast urethane compound possesses its own set of unique capabilities and benefits. The general temperature range BoKure

urethane is -62°C to 93°C (-80°F to 200°F), specialty compounds are available for low temperature and higher heat applications. Our experienced and knowledgeable team of professionals can assist in determining the ideal compound for your application and environment. *Custom colours are available upon request.*

BoKure™ urethane advantages:

- Exceptional load-bearing ability
- Excellent cracking and tearing resistance
- Outstanding resistance to various oils and hydrolysis
- Remarkable flexural strength and abrasion resistance

BoKure™ urethane is used in numerous applications across an endless number of markets and industries, including:

- Oil & gas
- Mining
- Agriculture
- Construction
- Automotive
- Food & Beverage

Physical Properties	ASTM	B701	B713	B801	B831	B843	B931	B951	B301
Hardness, Shore A	D2240	-	70 ±5	-	83 ±5	77 ±5	93 ±5	95 ±5	30 ±3
Hardness, Shore D	D2240	70 ±5	-	80 ±5	-	-	-	-	-
Tensile Strength, psi (MPa)	D412	7,078 (48.8)	5,801 (40)	7,542 (52)	4,641 (32)	6,671 (46)	5,076 (35)	5,221 (36)	1044 (7.2)
Modulus @ 100%, psi (MPa)	D412	4,554 (31.4)	406 (2.8)	7,400 (51)	667 (4.6)	-	1,610 (11.1)	1,813 (12.5)	188 (1.3)
Elongation, %	D412	240	675	170	450	800	530	490	775
Specific Gravity, g/cm <sup>3</sup>	D792	1.17	1.25	1.17	1.08	1.25	1.12	1.12	1.05

BoKure™ MU90 is our premium compound that we offer as our standard machinable urethane material.

Physical Properties	DIN	MU90
Hardness, Shore A (Shore D)	53505	95 ±3 (49 ±3)
Tensile Strength, N/mm <sup>2</sup> (psi)	53504	56 to 65 (8,122 to 9,427)
Modulus @ 100%, N/mm <sup>2</sup> (psi)	53504	15.3 (2,219)
Elongation, %	53504	382
Specific Gravity, g/cm <sup>3</sup>	53479	1.21
General Temp Range, °C (°F)	-	-30 to +110 (-22 to +230)

For more information on BoKure™ urethane email us at [engineering@hitechseals.com](mailto:engineering@hitechseals.com).

