

Technical Data

Butyl Rubber Sheets
(ButylShield60 Pro)

ButylShield60 Pro - Bromo

Model: RS-BTSH(P)-BIIR12060

ButylShield60 Pro – Bromo is a brominated butyl rubber sheet designed for industrial environments requiring resistance to high temperatures, flame exposure, and chemically aggressive media.

This compound exhibits low gas and vapor permeability, improved bonding compatibility with various substrates, and strong retention of physical properties under mechanical and thermal stress. It is engineered for specialized applications in sectors such as chemical processing, automotive insulation, and pharmaceutical containment, where sealing integrity, barrier performance, and fire resistance are critical.

The Bromo variant offers enhanced process safety and application flexibility in thermally intense or chemically volatile environments.

Its improved bonding and high-temperature resilience make it suitable for high-risk enclosures and dynamic insulation zones. For users operating in compliance-critical sectors, it provides assurance of long-term performance, system integrity, and material reliability under stress.

PRODUCT FEATURES



Bromobutyl formulation with flame-resistant properties

Suitable for use in environments with elevated fire safety requirements



Improved adhesion characteristics

Compatible with a broad range of surfaces for use in bonded or laminated systems



Performs under high thermal and chemical loads

Retains structural and sealing performance in combined heat and chemical exposure



Gas- and liquid-resistant barrier

Offers effective containment where vapor or chemical leakage must be controlled



Durable in mechanically active systems

Withstands movement and pressure variation without cracking or delaminating



Consistent physical behavior over time

Maintains performance characteristics in long-term or static applications



DID YOU KNOW?

Butyl rubber's gas impermeability is so high that it's the preferred material for inner tubes and pharmaceutical stoppers, reducing gas transmission rates to nearly 0.0001 cc/cm²/day.

(Source: ASTM D1418)



MEASURED PROPERTIES	TESTING STANDARD	SPECIFIED VALUES	OBSERVED VALUES	
PHYSICAL & MECHANICAL PROPERTIES				
Tensile Strength (MPa)	ASTM D412	8.0 MPa (Min)	8.7	
Elongation at Break	ASTM D412	350% (Min)	367%	
Hardness (°Shore A)	ASTM D2240	60° ± 5° Shore A	61° Shore A	
Specific Gravity	ASTM D297	1.20 ± 0.05	1.22	
Working Temperature (°C)	-	-40 °C to +130 °C	Conforms	
CHEMICAL RESISTANCE				
Ozone	Dilute Acids & Bases	Conc. Acids & Bases	Oils	Solvents
Excellent	Excellent	Excellent	Fair	Not Recommended
IDENTIFICATION				
Branding	Duratuf			
Colour	Black			
Grade	Pro			
Polymer	Bromo-Butyl			
Polymer Content	100%			
Finish	Top & bottom plain			
Packaging	With white coloured HDPE woven fabric			
Labelling	Label indicating Product Name, Dimensions, Batch No., Mfg. Month & Year, Quantity, and Package No. to allow traceability			

Note: Manufacturing tolerance of ± 10% on thickness, ± 2% on width and length and ±10% on weight shall be applicable.

Applications	<ul style="list-style-type: none"> Automotive engine bay sealing and insulation Chemical reactor and pump housing gaskets High-temperature fluid and gas transport lines Industrial brake and clutch lining systems Pharmaceutical plant barrier layers Flame-retardant applications in power plants Protective linings in acid and solvent tanks
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