

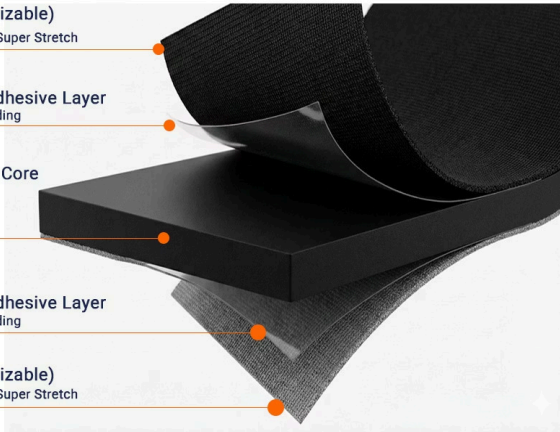
Top Face Fabric (Customizable)
e.g., Nylon, Lycra, Super Stretch

Micro-Thin Lamination Adhesive Layer
eEco-Friendly Bonding

Precision-Split Neoprene Core
(CR/SCR/SBR)
From 1mm to 10mm

Micro-Thin Lamination Adhesive Layer
eEco-Friendly Bonding

Top Face Fabric (Customizable)
e.g., Nylon, Lycra, Super Stretch



Neoprene Selection Matrix: Engineering the Perfect Balance

A Practical Guide to SBR, SCR, and CR Materials based on 20 Years of
Manufacturing Expertise

NEOPRENEX | MANAGED BY A NATIONAL REGISTERED ISO AUDITOR



Understanding the Core: SBR, SCR, and CR

Not all neoprene is created equal. Each grade serves a distinct performance tier – knowing the difference is the foundation of smart material selection.

SBR – Commercial Grade

The go-to solution for fashion accessories and daily-use products. Delivers excellent cost-efficiency with reliable shape retention across standard conditions.

SCR – Performance Grade

A balanced polymer blend offering higher resilience and superior durability. Ideal for active-use products that demand repeated stretch recovery.

CR – Professional Grade

100% Chloroprene. Exceptional resistance to seawater, chemicals, and extreme temperatures. The standard for professional diving and medical applications.

How to Choose? The NeopreneX Decision Matrix

Application requirements — not price alone — should drive your material specification. Here's how we map grade selection to end-use performance demands.



Electronics Packaging

Focus on **Lamination Density**, not just thickness. SBR with high-stretch polyester delivers the optimal shock-absorption-to-cost ratio for laptop sleeves and device cases.



Fashion & Designer Bags

Priority is **Structural Integrity**. High-density SBR prevents sagging and preserves the architectural silhouette of large totes and structured accessories.



Medical & Athletic Braces

Focus on **Skin Compatibility** and stretch recovery. SCR or CR is recommended to prevent permanent deformation under repeated load cycles.



QC PROTOCOL

Beyond the Specs: What We Check on the Production Floor

Specification compliance is the baseline. Our ISO-guided QC process digs deeper into the variables that determine real-world product performance.

→ Surface Uniformity

Cell consistency is inspected across every batch to ensure a smooth, professional lamination finish free of voids or irregularities.

→ Odor Management

Specialized ventilation protocols minimize residual "new rubber" scent — a critical quality factor for consumer-facing brands.

→ Adhesion Strength

Peel-strength testing between fabric and core validates long-term delamination resistance under real-use stress conditions.



Engineering a Greener Future with GRS Standards

Recycled Content Integration

We incorporate RPET fabrics and recovered carbon black into our SBR and SCR lineups — reducing virgin material dependency without compromising performance.

Compliance First

All materials are independently audited for **REACH** and **RoHS** compliance, ensuring they meet global chemical safety and environmental standards for every market.

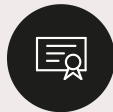
Leveraging 20 Years of Expertise for Your Project

We're not just a material supplier — we're a technical partner. From first specification to final audit, our ISO-certified team is with you at every stage.



Custom Calibration

We calibrate material density and lamination chemistry to your specific use case — not off-the-shelf guesswork.



ISO-Certified Consultation

Our National Registered ISO Auditor team helps you select the right grade, reducing costly prototyping cycles and specification errors.



Get in Touch

Reach our team at [**support@neoprenex.com**](mailto:support@neoprenex.com) or explore our Resource Center for technical guides and datasheets.

📄 NeopreneX | Managed by a National Registered ISO Auditor — Your technical partner from material selection to production floor compliance.