Cold Supply Chain: Septa Materials

A recognized global leader in material solutions, Rogers Corporation offers a diverse portfolio of products that deliver excellent, reliable performance as septa liners. Able to be used for multiple insertions, the materials exhibit inertness and exceptional chemical resistance.





Ultra-Low Temperature Applications

The Rogers ARLON® silicone family contains several grades of materials that perform exceptionally well at the low temperatures required in cold supply chain applications.

Low temperature embrittlement is a commonly-measured property which indicates the temperature at which a rubber material can no longer maintain its elastomeric properties and is susceptible to cracking.

A typical silicone elastomer material reaches low temperature embrittlement around -55°C. Several ARLON materials, however, function at temperatures well below this. An ARLON GP grade solid silicone material, for example, can reach temperatures as low as -62°C.

GP (Specification Grade, AA59588 Class 2A/2B GR25-80)

Low temperature brittle point below -62°C

<u>LT (Low Temperature Grade, AA59588 Class 1A/1B</u> GR40-80)

• Low temperature brittle point below -75°C

HS/LT (High Strength/Low t\Temperature grade, AA59588 Class 3A GR30-60)

• Low temperature brittle point below -90°C

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Traditional Septa Applications

Rogers offers a broad range of materials that preserve and protect sensitive product throughout the cold storage supply chain.

Manufactured using premium resin, DeWAL® skived PTFE film conforms to strict standards and tolerances. With a natural resistance to most chemistries, biological inertness, excellent range of operational temperatures, and an ability to be sterilized via autoclave and ethylene oxide, PTFE is an ideal material for critical medical, biological, and pharmaceutical applications.

BISCO® MS-1600 medical-grade solid silicone is a premium material intended for use in life science applications. The final product has been tested to meet USP Class 6 requirements and FDA compliance. Durometer, Shore A range between 40 and 70.

