Application Note

# Cold Supply Chain: Fluoropolymer Solutions

A recognized global leader in material solutions, Rogers Corporation offers a comprehensive suite of products for packaging and cold storage applications, addressing both sealed and vented designs.


**Fluoropolymer Material Solutions for Cold 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 (-40°C to 250°C), and an ability to be sterilized via autoclave and ethylene oxide, PTFE is an ideal material for critical medical, biological, and pharmaceutical applications.

DeWAL sealing liners (DW950 series) are made from pure PTFE resins, are PFOA and TSE/BSE free, and comply to 21CFR177.1550. Available as PTFE and foam composites (as well as PTFE film), DeWAL DW950 series products accommodate many thickness and compressive requirements.

DeWAL venting liners (DW953 and DW955 product series) deliver pressure equalization via air and temperature permeation by marrying expanded PTFE with compressible LDPE foam. Sharing DW950 series temperature resistance of -40°C to 250°C, the DW953 and DW955 series are excellent choices for cold storage packaging applications that require a vented enclosure space.

Multiple venting profiles - through Z and X-Y directions - are available.

In addition, ePTFE membrane and porous PTFE membranes have the ability to accommodate multiple thickness requirements.