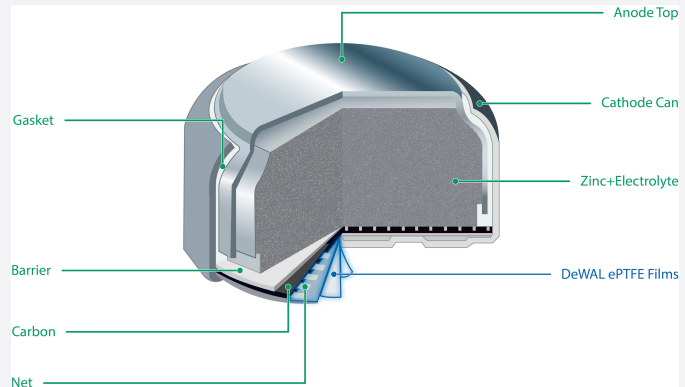


DeWAL® ePTFE Battery Separator Technology

Lithium-Ion battery technology is one of the most common battery technologies on the market today. These batteries leverage several design technologies all of which include anodes and cathodes that store lithium and allow lithium ions to flow through the battery system. A separator is located between the anode and cathode.

Battery separator technology allows a current to flow between the anode and cathode but blocks the flow of electrons inside the battery. A critical design element in any battery, the lack of a quality separator could cause the battery to fail due to internal shorting, thermal events, soft shorts and more.



Whether the battery is lithium-ion or zinc air, it is critical that the anodes and cathodes within a battery cell remain separate from one another.

DeWAL® ePTFE battery separators are a thin, lightweight, single layer solution that provides mechanical and thermal stability.

Key Properties of DeWAL ePTFE Battery Separators

Tight Thickness Tolerances: ePTFE membranes can be manufactured at thicknesses of 50 um and above

High Temperature Resistance: ePTFE sustains a temperature of 260°C (500°F)

Battery Efficiency: Battery separators help increase efficiency and lifespan of a battery cell

Competitive Advantage

Single Layer Solution: Rogers ePTFE membranes are a single layer battery separator solution

Manufactured in the USA: Rogers DeWAL products are manufactured at our Narragansett, RI facility

Engineering Design Support: Rogers technical services and development teams work with customers to understand their current needs and assist in creating custom solutions for their applications

For assistance with questions or sample requests, please contact our team of experts at solutions@rogerscorp.com