

MIRALON® Current Collectors

Product Description

MIRALON® Current Collectors are carbon-based, non-woven materials that can be used to replace aluminum or copper current collectors in lithium-sulfur or silicone anode batteries. Currently available as seamed tape spools using a proprietary seaming process, with continuous roll-to-roll production in development.

Typical Physical Properties*

Property	Value
Bulk density, g/cm ³	0.65
Areal density, g/m ²	12 ⁽¹⁾
Thickness, μm	20
Standard widths, cm	0.8 – 120
Temperature operating range, °C / °F	-200 to +200 / -328 to +392
Maximum processing temperature, °C / °F	350 / 662
Thermal conductivity, W/m*K	30
CTE, ppm/K	-3.0
Surface resistivity, (Ω/□) @ 20°C	1.3
Specific electrical conductivity, S*cm ² /g @ 20°C	600
Temperature coefficient of resistivity (surface), Ω*cm/K	7.40*10 ⁻⁷
Specific strength, MPa/(g/cm ³)	50 - 200

*Unless otherwise stated, the data was compiled from typical production batches using standard test methods. These are typical values only, referencing properties of a 12 gram per square meter (gsm) condensed sheet, and do not constitute a product specification.

Storage

MIRALON® Current Collectors should be stored in a cool, dry place, in their original package, away from direct sunlight.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest SDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

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