EVOH

Soarnol™ DC2503

Mitsubishi Chemical

Position #104 · Jinsutong Reference Catalog 2026

Resin Overview

EVOH · 27 mol%, Retort. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	Mitsubishi Chemical
Category	EVOH · 27 mol%, Retort
Typical Use	Retort pouches, high-temp sterilization

Key Properties

Ethylene Content	27 mol%
Density	1.20 g/cm³
MVR (190°C/2.16 kg)	3.8 g/10min
Melting Point (DSC)	188 °C
O2 Permeability (23°C/65% RH)	0.3 cc·mil/m2·day·atm
Tensile Strength at Yield	85 MPa
Elongation at Break	180%
Retort Survival (121°C/30min)	Pass (O2 retention >85%)

Key Features

- 27 mol% for retort applications
- Lowest OTR for high barrier
- Maintains O2 after sterilization
- FDA and EU food contact compliant

Processing Conditions

Melt Temperature	220-260 °C
Mold Temperature	N/A (extrusion)
Drying	4 h @ 100 °C in desiccant dryer
Processing Methods	Co-extrusion, retort processing

Typical Applications

- Retort pouches for ready meals
- High-temp sterilization packaging
- Hot-fill packaging
- Military rations

Regulatory & Compliance

- FDA 21 CFR 177.1360
- EU 10/2011
- BfR recommendation
- RoHS

> ⚠ All data sourced from public manufacturer catalogs.

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