EVOH

Soarnol™ DC3203FB

Nippon Gohsei (Mitsubishi Chemical)

Position #107 · Jinsutong Reference Catalog 2026

Resin Overview

EVOH · 32 mol%, Retort Grade. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	Nippon Gohsei (Mitsubishi Chemical)
Category	EVOH · 32 mol%, Retort Grade
Typical Use	Retort pouches, high-heat barrier

Key Properties

Ethylene Content	32 mol%
Density	1.19 g/cm³
MVR (190°C/2.16 kg)	3.2 g/10min
Melting Point (DSC)	181 °C
O₂ Permeability (23°C/65% RH)	0.4 cc·mil/m2·day·atm
Tensile Strength at Yield	80 MPa
Retort Survival (121°C/30min)	Pass (O2 retention >90%)
HDT (0.45 MPa)	105 °C

Key Features

- Designed for retort sterilization (121°C)
- Lowest OTR at 32 mol%
- Maintains O2 barrier after retort
- FDA and EU food contact compliant

Processing Conditions

Melt Temperature	210-250 °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-to-eat meals
- High-heat sterilization packaging
- Stand-up pouches with EVOH
- Hot-fill packaging

Regulatory & Compliance

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

> ⚠ All data sourced from public manufacturer catalogs.

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