

Soarnol[®] V2504R

ETHYLENE VINYL ALCOHOL COPOLYMER

25 mol% Ethylene Content

Applications

Soarnol V2504R is a 25 mol% ethylene content grade of Soarnol with a low melt flow rate. Soarnol V2504R is truly a unique EVOH with the best gas barrier property at low humidity of all commercial EVOH resins. It is suited for coextruded blow-molded containers as well as coextruded sheet, coextruded film, and coextrusion coating.

General Properties

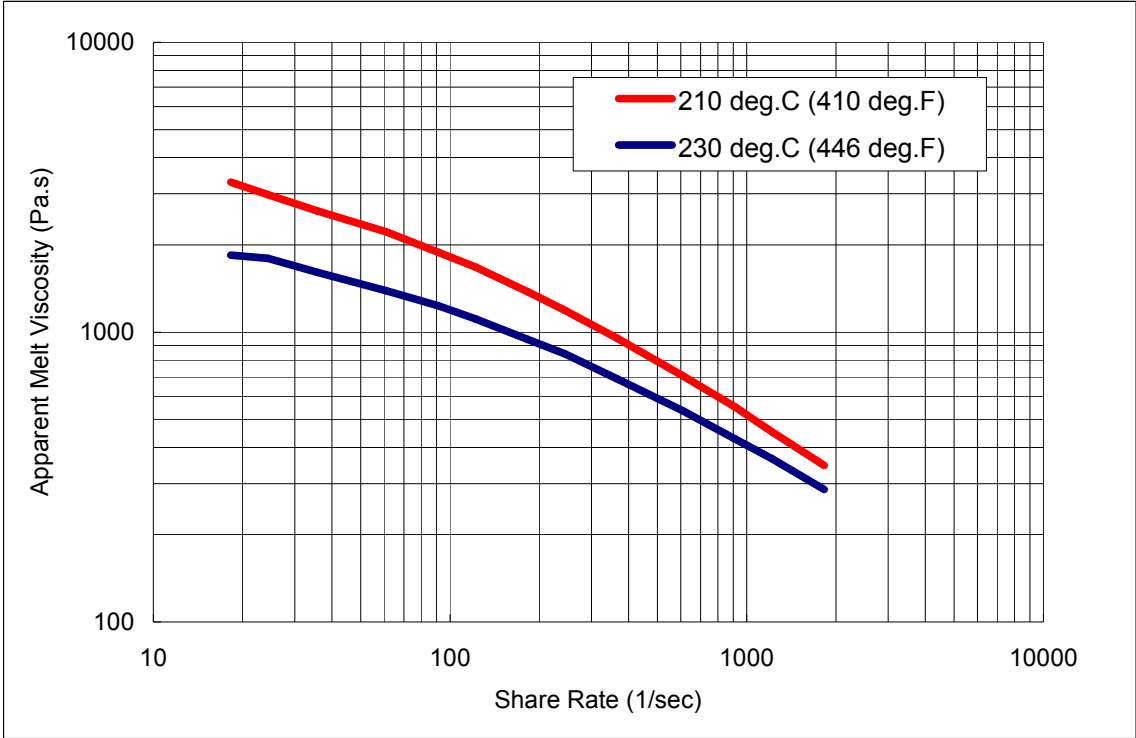
<i>Properties</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	25
MFR ¹⁾ (210 degree C, 2160g)	g/10min	3.8
Volatile Matter	%	< 0.3
Melting Point ²⁾	degree C	195
Crystallization Temperature ²⁾	degree C	171
Oxygen Permeability (20C, 65%RH) ³⁾	cc 20um / m ² day atm	0.3
	cc mil / 100inch ² day atm	0.015

1): Measured with Melt Indexer

2): Measured with DSC, both heating and cooling speeds of 10 C/min

3): Measured with OXTRAN 10/50 (MOCON)

Melt Viscosity



Example of Processing

- Extruder: 40 mm Single screw extruder, L/D = 28
- Screw: Full-flighted, constant pitch type, CR = 3.5
- Screen pack: 80/120/50 mesh
- Die: Manifold type, die width = 450 mm, lip clearance = 0.2 mm

Processing Temperature

	B ₁	B ₂	B ₃	B ₄	B ₅	A
deg.C	180	200	220	230	230	230
deg.F	356	392	428	446	446	446

Quality and Safety for Application of Soarnol V2504R

High quality Soarnol is produced by NOLTEX L.L.C. in U.S.A. and Mizushima plant in Japan. Both plants are certified to meet the requirement of ISO 9001.

Soarnol contains no heavy metals or other harmful substances. Soarnol meets the Food Sanitation Standards of various countries.

U.S.A: US FDA 21, C.F.R. 177.1360
JAPAN: Voluntary Regulation Standard of Sanitation Council for Polyolefin, etc., Ministry of Health and Welfare (Notification No. 370)
EU: Directive 90/128/EEC

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