

Soarnol[®] H4815B

ETHYLENE VINYL ALCOHOL COPOLYMER

48 mol% Ethylene Content

Applications

Soarnol H4815B is a 48 mol% ethylene content grade of Soarnol with a high melt flow rate. Soarnol H4815B has the best water resistance of all Soarnol grades and its gas barrier property is not drastically lower at high humidity. This resin is used in coextruded film, coextrusion coating, and shrink packaging.

General Properties

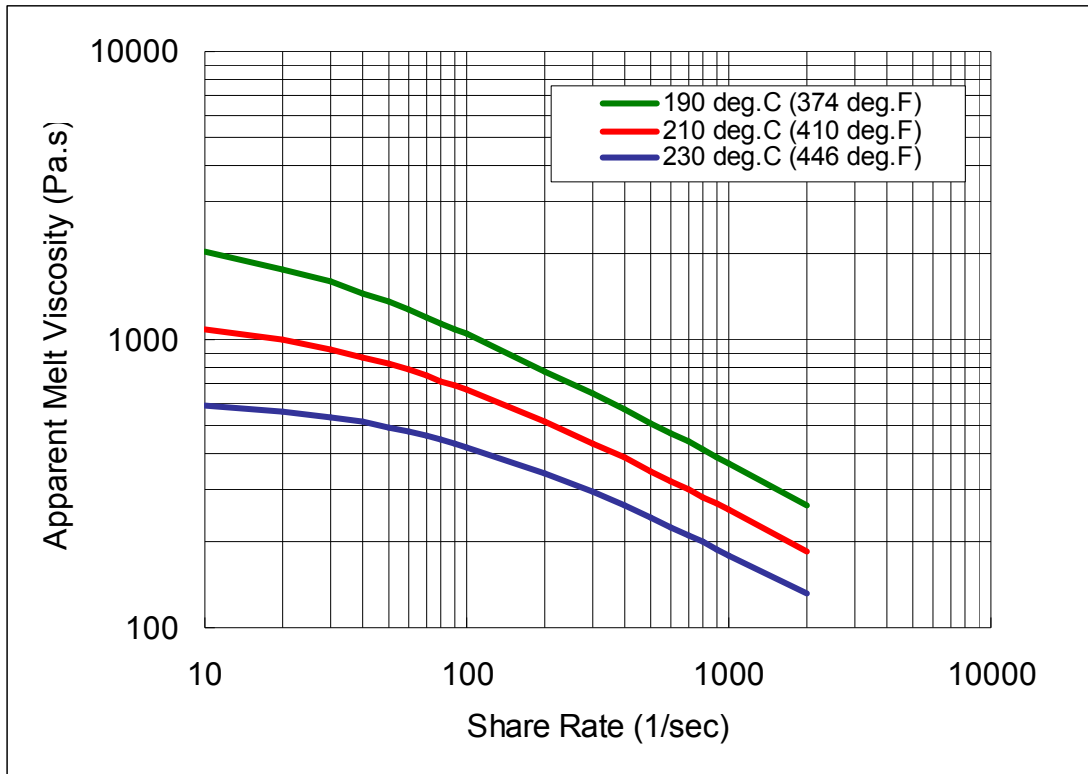
<i>Properties</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	48
MFR ¹⁾ (210 degree C, 2160g)	g/10min	16
Volatile Matter	%	< 0.3
Melting Point ²⁾	degree C	158
Crystallization Temperature ²⁾	degree C	138
Glass Transition Temperature ²⁾	degree C	48
Oxygen Permeability (20C, 65%RH) ³⁾	cc 20um / m ² day atm	4
	cc mil / 100inch ² day atm	0.2

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 ϕ 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	170	190	210	220	220	220
deg.F	338	374	410	428	428	428

Quality and Safety for Application of Soarnol H4815B

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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