

Soarnol[®] ST1304B

ETHYLENE VINYL ALCOHOL COPOLYMER

Flex Crack Resistance Grade

Applications

Soarnol ST1304B is a special grade of Soarnol with 32 mol% ethylene content and a low melt flow rate. This resin has excellent flex crack resistance.

General Properties

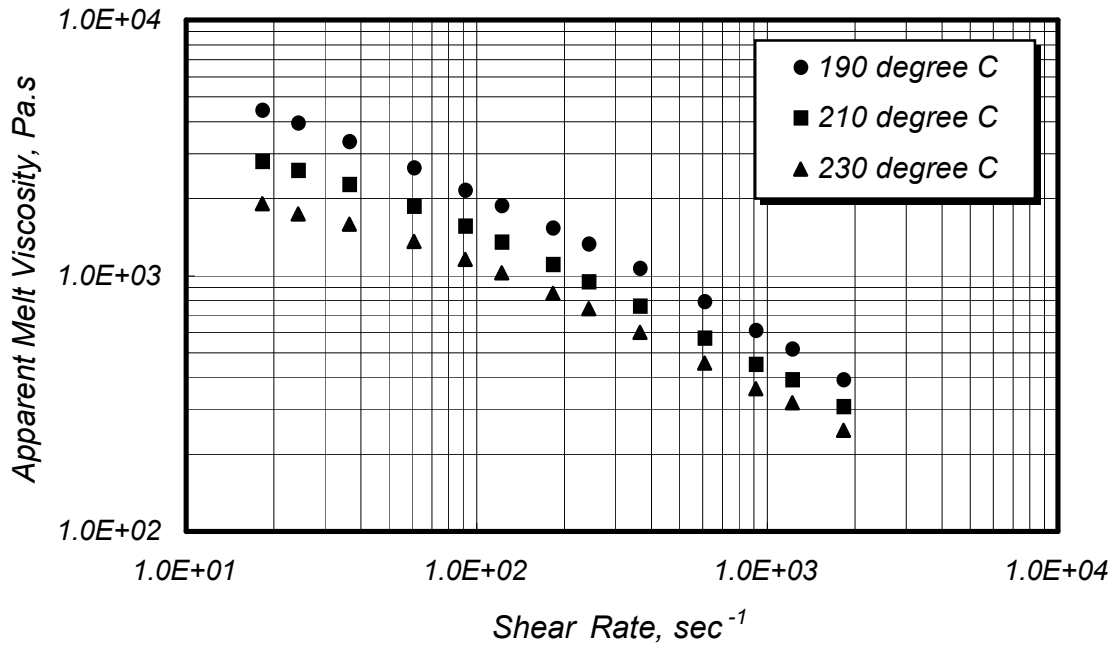
<i>Properties</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	32
MFR ¹⁾ (210 degree C, 2160g)	g/10min	4.0
Volatile Matter	%	< 0.3
Melting Point ²⁾	degree C	183
Crystallization Temperature ²⁾	degree C	160
Glass Transition Temperature ²⁾	degree C	61
Oxygen Permeability(20C, 65%RH) ³⁾	cc 20um / m ² day atm	0.6
	cc mil / 100inch ² day atm	0.030

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 ST1304B

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.175.105
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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