

# SoarnoL™ D2908

ETHYLENE VINYL ALCOHOL COPOLYMER (EVOH)

29 mol% Ethylene Content

## Application

SoarnoL™ D2908 is one of the standard grades of SoarnoL™, its ethylene content is 29 mol% with an intermediate MFR (melt flow rate). SoarnoL™ D2908 has excellent gas barrier property at normal humidity. This resin is primarily used in co-extruded cast film and co-extrusion coating applications.

## General Properties

Properties	Unit	Value
Ethylene Content	mol%	29
MFR <sup>1)</sup> (210 degree C, 2160g)	g/10min	8.0
Volatile Matter	%	< 0.3
Melting Point <sup>2)</sup>	degree C	188
Crystallization Temp. <sup>2)</sup>	degree C	163
Glass Transition Temp. <sup>2)</sup>	degree C	62
Density <sup>3)</sup> (23 degree C)	g/cm <sup>3</sup>	1.21
Oxygen Permeability <sup>4)</sup> (20 degree C x 65%RH)	cc.20µm / m <sup>2</sup> .day.atm cc.mil / 100inch <sup>2</sup> .day.atm	0.2 0.010

1): Measured with Melt Indexer

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

3): Measured with Micromeritics Gas Pycnometer

4): Measured with OXTRAN 2/20 (MOCON)

\*The above figures are representative values and are not guaranteed.

Melt Viscosity

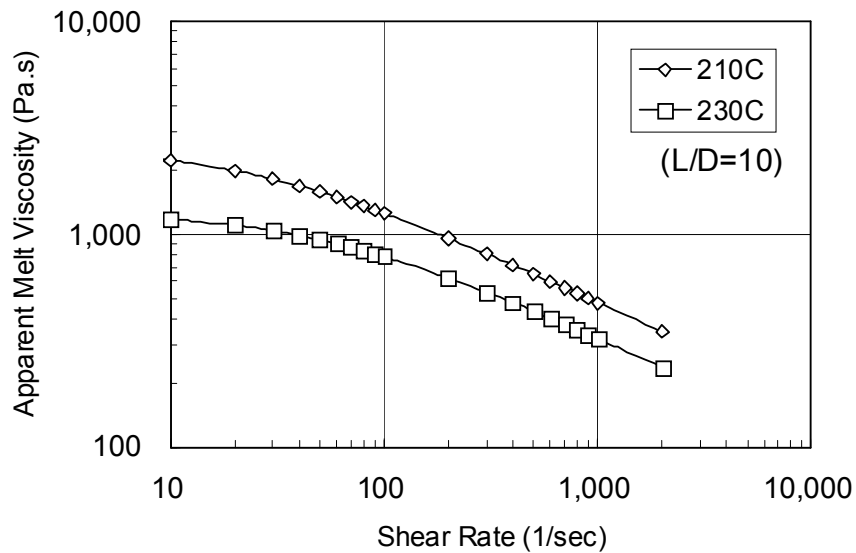


Fig. 1 Melt Viscosity of Soarnol™ D2908

Example of Processing

Extruder : 40 mmφ L/D = 28  
 Screw : full flight, constant pitch type, C.R. = 3.5  
 Screen pack : 90/90 mesh

Processing Temperature

	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	AD
deg.C	190-210	200-220	210-230	210-230	210-230	210-230
deg.F	374-410	392-428	410-446	410-446	410-446	410-446

## Quality and Safety for Application of Soarnol™ D2908

High quality Soarnol™ is produced by Mizushima plant in Japan, NOLTEX L.L.C. in U.S.A. and NIPPON GOHSEI UK Ltd. in U.K.. All 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

EU : Commission Regulation (EU)No. 10/2011 and its amendments

JAPAN : Ministry of Health and Welfare Announcement No.370(1959) and Its Latest Amendment No.18(1994)

Voluntary Standards for Food Contact Substances and Polymers (JHOSPA)

---

## Soarnol™ Contacts

Soarus L.L.C	3930 Ventura Drive, Suite 355, Arlington Heights, IL 60004, USA TEL +1-847-255-1211 FAX +1-847-255-4343
NIPPON GOHSEI Head Quarters	Osaka FUKOKU SEIMEI BUILDING, 2-4 Komatsubara-cho, Kita-ku Osaka 530-0018, Japan TEL +81-6-7711-5424 FAX +81-6-7711-5452
NIPPON GOHSEI Europe GmbH	Merowingerplatz 1a, D-40225, Duesseldorf, Germany, Life Science Center TEL +49-211-385488-0 FAX +49-211-385488-29
NICHIGO SHANGHAI Co., Ltd.	Room 904, The Center, No.989 Chang Le Road, Shanghai 200031,China TEL +86-21-5407-6333 FAX +86-21-5407-6038
NIPPON GOSEI (THAILAND) Co., Ltd.	100/62, 30th Floor, Sathorn Nakorn Tower, North Sathorn Road, Kwang Silom, Khet Bangrak, Bangkok 10500, Thailand TEL +66-2-267-1843 FAX +66-2-267-1864
Processing-Technique Development Center	8-1, Matsue 4-chome, Kurashiki, Okayama 712-8052, Japan TEL +81-86-455-5214 FAX +81-86-455-5289

URL: <http://www.soarnol.com/>

<http://www.soarus.com/>

<http://www.nichigo.co.jp/>