

Soarnol[®] TF2905B

ETHYLENE VINYL ALCOHOL COPOLYMER

New Thermoforming Grade

Applications

Soarnol TF2905B is a special grade of Soarnol with a 29 mol% ethylene content and an intermediate melt flow rate. This resin has a wide thermoforming process window with excellent gas barrier. Soarnol TF2905B is specifically designed for thermoforming applications using Polystyrene and Polyethylene structural layers. This resin can also be used in thermoforming applications using Polypropylene structural layers.

General Properties

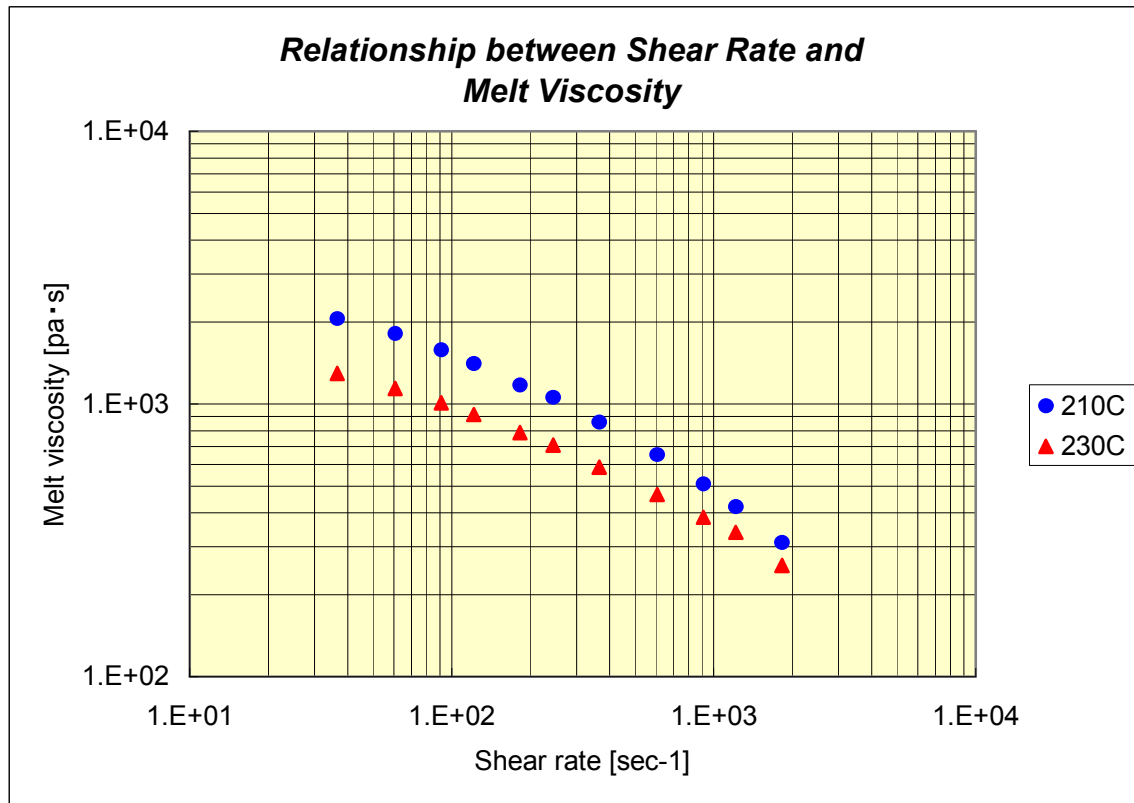
<i>Properties</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	29
MFR ¹⁾ (210 degree C, 2160g)	g/10min	5
Volatile Matter	%	< 0.3
Melting Point ²⁾	degree C	188
Crystallization Temperature ²⁾	degree C	163
Oxygen Permeability (20C,65%RH) ³⁾	cc 20um / m ² day atm	0.5
	cc mil / 100inch ² day atm	0.023

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	180	200	220	230	230	230
deg.F	356	392	428	446	446	446

Quality and Safety for Application of Soarnol TF2905B

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

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 : *Umeda Sky Building, 1-1-88, Oyodo Naka, Kita-ku, Osaka 531-6029, Japan*
Head Quarter : *TEL 81-6-6440-5313 FAX 81-6-6440-5326*

Central Research : *2-13-1, Muroyama, Ibaraki, Osaka 567-0052, Japan*
Laboratory : *TEL 81-726-43-2256 FAX 81-726-43-2257*

Processing-Technique : *8-1, Matsue 4-chome, Kurashiki, Okayama 712-8052, Japan*
Development Center : *TEL 81-86-455-5214 FAX 81-86-455-5289*

Nippon Gohsei : *Prinzenallee 13, D-40549, Duesseldorf, Germany*
Europe GmbH : *TEL 49-211-52392-37 FAX 49-211-52392-81*

NOLTEX L.L.C. : *12220 Strang Road La Porte, Texas 77571-9740, USA*
TEL 1-281-842-5000 FAX 1-281-842-5095