

Soarnol®

ETHYLENE-VINYLAICOHOL COPOLYMER

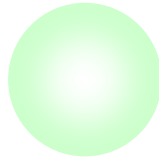


E3808

E3808B

38 mol% Ethylene Content





[General Description]

Soarnol E3808(B) is one of the standard grades of “Soarnol®”, its ethylene content is 38 mol% with an intermediate MFR(melt flow rate).

Soarnol E3808(B) has both excellent barrier to gases as well as water resistance. This resin primarily used in coextruded film and coextrusion coating applications. Furthermore, it can also be used in thermoforming and shrink packaging.

[General Properties]

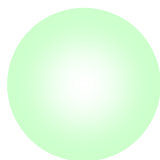
<i>Property</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	38
MFR ¹⁾ (@210deg C, 2160g)	g/10min	8
Volatile Matter	%	< 0.3
Melting Point ²⁾	deg C	173
Crystallization Temperature ²⁾	deg C	152
Oxygen Permeability ³⁾	cc 20 μ m / m ² day atm	0.7
20deg C-65%RH	cc·mil/100inch ² ·day·atm	0.036
WVTR	g 30 μ m / m ² 24hrs	23-35
40deg C-90%RH		

1): Measured with Melt Indexer

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

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





[Melt Viscosity]

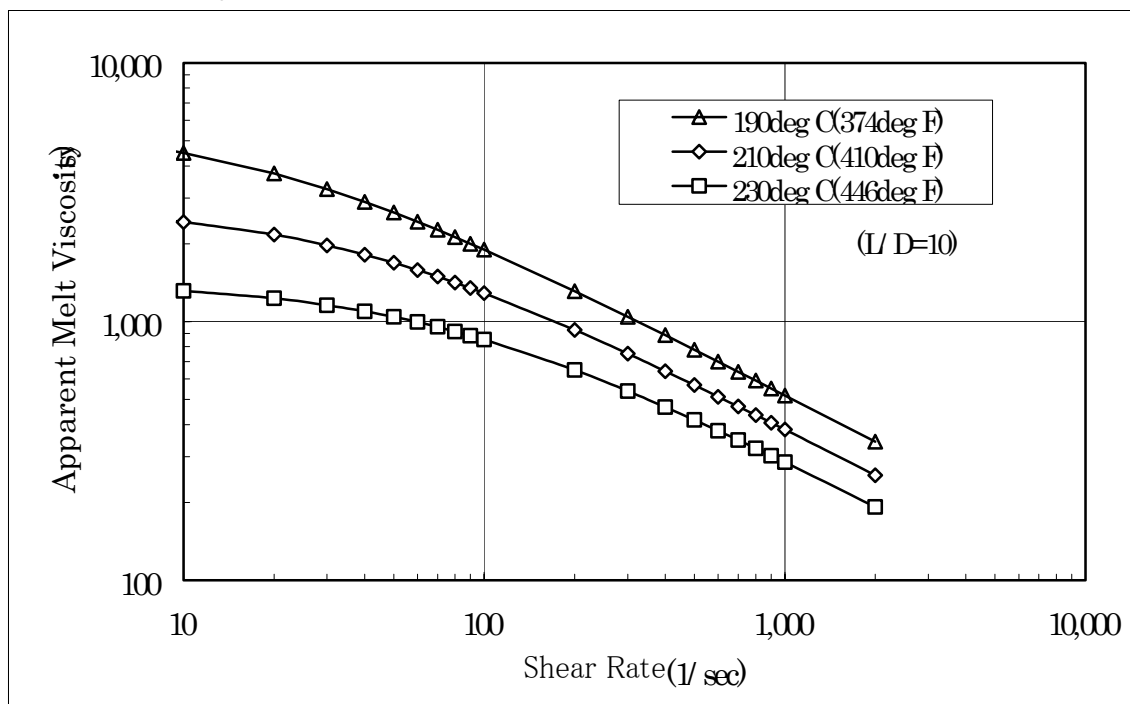


Fig.1 Melt Viscosity of Soarnol E3808(B)

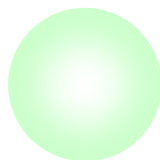
[Example of Processing]

- 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: deg C(deg F)

C ₁	C ₂	C ₃	C ₄	C ₅	Head	Die
170	190	210	220	220	220	190-220
(338)	(374)	(410)	(428)	(428)	(428)	(374-428)





[Hygienic Performance of Soarnol E3808(B)]

Soarnol E3808(B) contains no heavy metals or other harmful substances.
Soarnol E3808(B) meets the Food Sanitation Standards of various countries.

Japan: Ministry of Health and Welfare Announcement No.370(Dec. 28,1959)
and Its Latest Amendment No.18(Jan. 31,1994)

Self-Restrictive Requirements on Food-Contacting Articles

Made of Polyolefins and Certain Polymers

U.S.A.: FDA 21CFR 177.1360(a)(3) and 175.105

E U: European Commission Directive 90/128/EEC,
and Its Latest Amendment

Date Revised: Sep. 1, 2003

The Nippon Synthetic Chemical Industry Co., Ltd

Head Office	:	Umeda Sky Building, 1-88, Oyodonaka 1-chome, Kita-ku, Osaka 531-6029, Japan	TEL 81-6-6440-5313	FAX 81-6-6440-5326
Tokyo Office	:	Nittobo Building, 8-1, Yaesu 2-chome, Chuo-ku, Tokyo 104-0028, Japan	TEL 81-3-3273-1388	FAX 81-3-3273-3029
Nagoya Office	:	Dainagoya Building, 28-12, Meieki 3-chome, Nakamura-ku, Nagoya 450-0002, Japan	TEL 81-52-565-3538	FAX 81-52-565-3574
Central Research Laboratory	:	13-1, Muroyama 2-chome, Ibaraki, Osaka 567-0052, Japan	TEL 81-726-43-2256	FAX 81-726-43-2257
Kyushu Office	:	Daihaku Center Building, 19-24, Hakata-Ekimae 2-chome, Hakata-ku, Fukuoka 812-0011, Japan	TEL 81-92-432-0104	FAX 81-92-432-0122
Processing-Technique Development Center	:	8-1, Matsue 4-chome, Kurashiki, Okayama 712-8052, Japan	TEL 81-86-455-5214	FAX 81-86-455-5289
NIPPON GOHSEI Europe GmbH	:	Merowingerplatz 1a, D-40225, Düsseldorf, Germany	TEL 49-211-385488-0	FAX 49-211-385488-29
NIPPON GOHSEI UK Ltd.	:	Unit 14 Marina Court, Castle Street, Hull HU1 1TJ, UK	TEL 44-1482-333320	FAX 44-1482-333325
NOLTEX L.L.C.	:	12220 Strang Road, La Porte TX 77571-9740, USA	TEL 1-281-842-5000	FAX 1-281-842-5095
SOARUS L.L.C.	:	3930 Ventura Drive, Suite 440 Arlington Heights, IL 60004, USA	TEL 1-847-255-1211	FAX 1-847-255-4343

URL: <http://www.soarnol.com/>
<http://www.nichigo.co.jp/>

