

G-Soarnol™ GH3804B

ETHYLENE VINYL ALCOHOL COPOLYMER (EVOH)

Application

G-Soarnol is a special EVOH, whose crystallinity and melting point can be controlled. G-Soarnol™ has excellent orientability and shrinkability while keeping its excellent gas barrier property. G-Soarnol™ GH3804B is ethylene content 38 mol% EVOH with excellent orientability. This grade is suitable for orientation applications, biaxial oriented film with tenter frame such as BOPP film and shrink bag with double bubble process.

General Properties

Properties	Unit	Value
Ethylene Content	mol%	38
MFR ¹⁾ (210 degree C, 2160g)	g/10min	4.0
Volatile Matter	%	< 0.3
Melting Point ²⁾	degree C	160
Crystallization Temp. ²⁾	degree C	132
Glass Transition Temp. ²⁾	degree C	55
Density ³⁾ (23 degree C)	g/cm ³	1.16
Oxygen Permeability ⁴⁾ (20 degree C x 65%RH)	cc.20μm / m ² .day.atm cc.mil / 100inch ² .day.atm	0.8 0.041

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

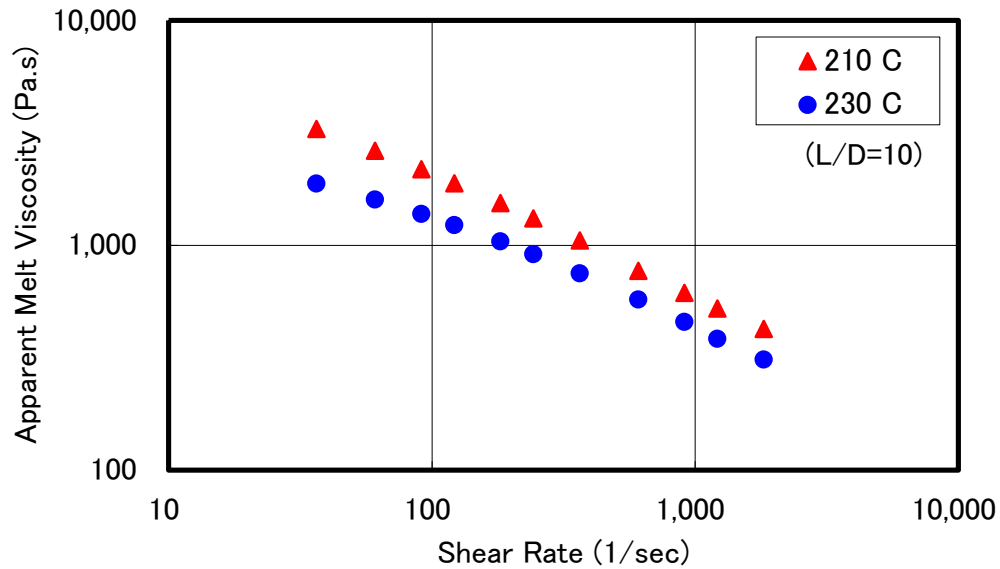


Fig. 1 Melt Viscosity of G-Soarnol™ GH3804B

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 ₁	C ₂	C ₃	C ₄	C ₅	AD
deg.C	170-200	185-210	200-230	200-230	200-230	200-230
deg.F	338-392	365-410	392-446	392-446	392-446	392-446

Quality and Safety for Application of G-Soarnol™ GH3804B

High quality G-Soarnol™ is produced by Okayama plant in Japan. Okayama plant is certified to meet the requirement of ISO 9001.

G-Soarnol™ contains no heavy metals or other harmful substances. Soarnol™ meets the Food Sanitation Standards of various countries.

Please contact us to inquire about food product hygiene for the various G-Soarnol™ brands or for food hygiene conformity in other countries.

U.S.A : US FDA FCN749

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)

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

CHINA : GB9685, GB4806.6 and their amendments

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