

Soarnol®

ETHYLENE-VINYLAICOHOL COPOLYMER

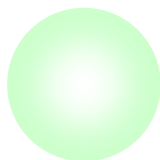


D2908

D2908B

29 mol% Ethylene Content





[General Description]

Soarnol D2908(B) is one of the standard grades of “Soarnol®”, its ethylene content is 29 mol% with an intermediate MFR(melt flow rate).

Soarnol D2908(B) has excellent gas barrier property at normal humidity and is primarily used in coextruded sheet and coextrusion coating applications. This resin can also be used in coextruded film and coextruded blow-molded containers.

[General Properties]

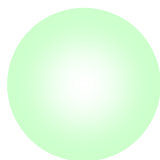
<i>Property</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	29
MFR ¹⁾ (@210deg C, 2160g)	g/10min	8
Volatile Matter	%	< 0.3
Melting Point ²⁾	deg C	188
Crystallization Temperature ²⁾	deg C	163
Oxygen Permeability ³⁾	cc 20 μ m / m ² day atm	0.4
20deg C-65%RH	cc·mil/100inch ² ·day·atm	0.020
WVTR	g 30 μ m / m ² 24hrs	37-70
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]

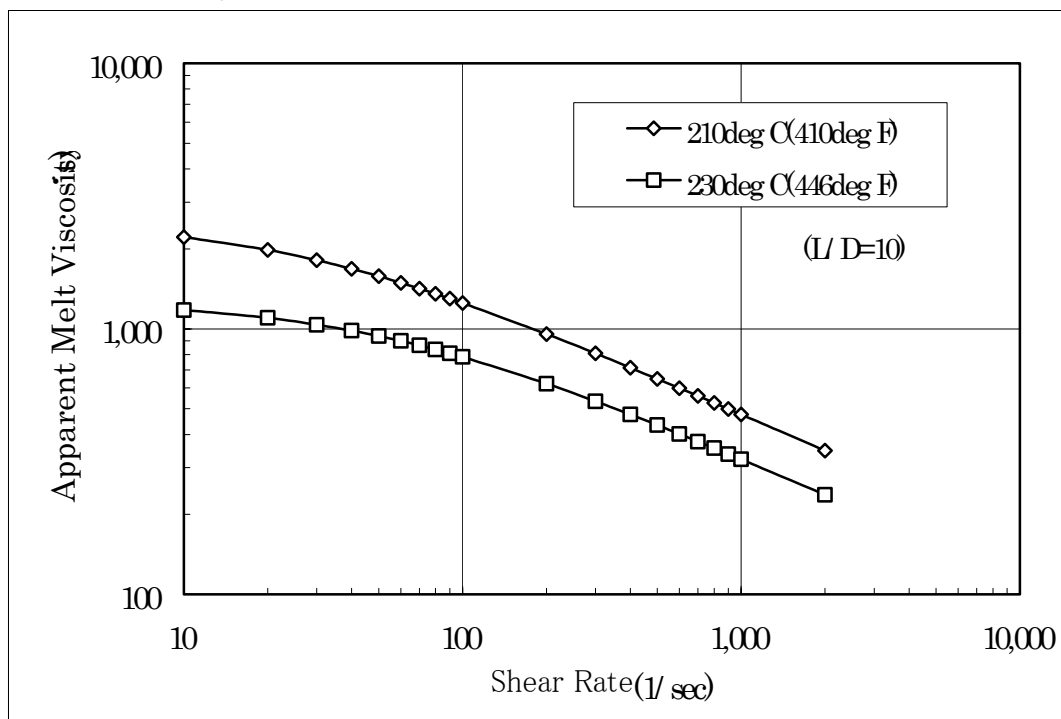


Fig.1 Melt Viscosity of Soarnol D2908(B)

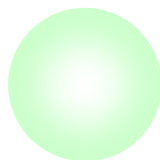
[Example of Processing]

- 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
180	200	220	230	230	230	200-220
(356)	(392)	(428)	(446)	(446)	(446)	(392-428)





[Hygienic Performance of Soarnol D2908(B)]

Soarnol D2908(B) contains no heavy metals or other harmful substances.
Soarnol D2908(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

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