



Soarnol®

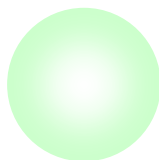
ETHYLENE-VINYLAALCOHOL COPOLYMER



DT2903

DT2903B

29 mol% Ethylene Content



[General Description]

Soarnol DT2903(B) is one of the standard grades of “Soarnol[®]”, its ethylene content is 29 mol% with a low MFR(melt flow rate).

Soarnol DT2903(B) has excellent gas barrier property at normal humidity and is used in coextruded film as well as coextruded sheet, coextruded blow-molded containers and coextrusion coating.

[General Properties]

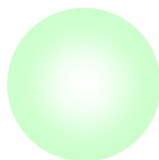
<i>Property</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	29
MFR ¹⁾ (@210deg C, 2160g)	g/10min	3.2
Volatile Matter	%	< 0.3
Melting Point ²⁾	deg C	188
Crystallization Temperature ²⁾	deg C	163
Oxygen Permeability ³⁾	cc 20 μ m / m ² day atm	0.4
20deg C-65%RH	cc·mil/100inch ² ·day·atm	0.020
WVTR	g 30 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]

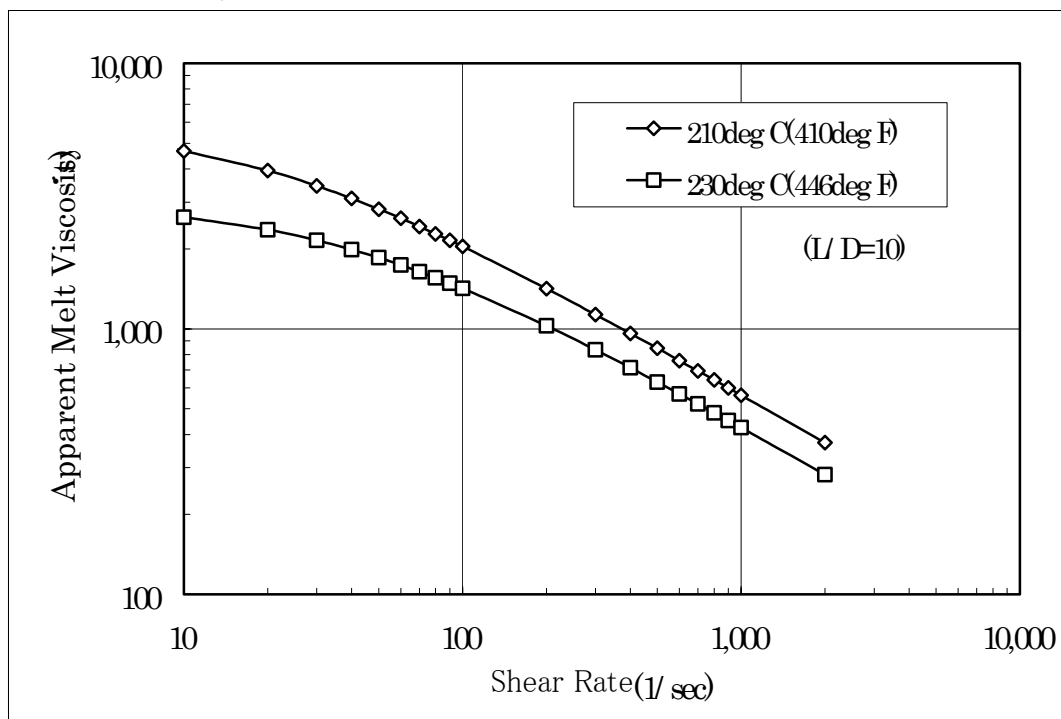


Fig.1 Melt Viscosity of Soarnol DT2903(B)

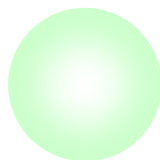
[Example of Processing]

- 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 DT2903(B)]

Soarnol DT2903(B) contains no heavy metals or other harmful substances.
Soarnol DT2903(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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