




Soarnol®

ETHYLENE-VINYLAICOHOL COPOLYMER

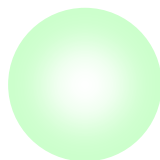


DC3203F

DC3203FB

32 mol% Ethylene Content





[General Description]

Soarnol DC3203F(B) is one of the standard grades of “Soarnol®”, its ethylene content is 32 mol% with a low MFR(melt flow rate).

Soarnol DC3203F(B) has excellent barrier to gases and is primarily used in coextruded blow-molded containers and coextruded film applications. This resin can also be used in coextruded sheet.

[General Properties]

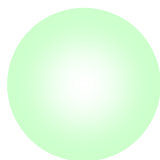
<i>Property</i>	<i>Unit</i>	<i>Value</i>
Ethylene Content	mol%	32
MFR ¹⁾ (@210deg C, 2160g)	g/10min	3.2
Volatile Matter	%	< 0.3
Melting Point ²⁾	deg C	183
Crystallization Temperature ²⁾	deg C	160
Oxygen Permeability ³⁾	cc 20 μ m / m ² day atm	0.5
20deg C-65%RH	cc·mil/100inch ² ·day·atm	0.025
WVTR	g 30 μ m / m ² 24hrs	32-58
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]

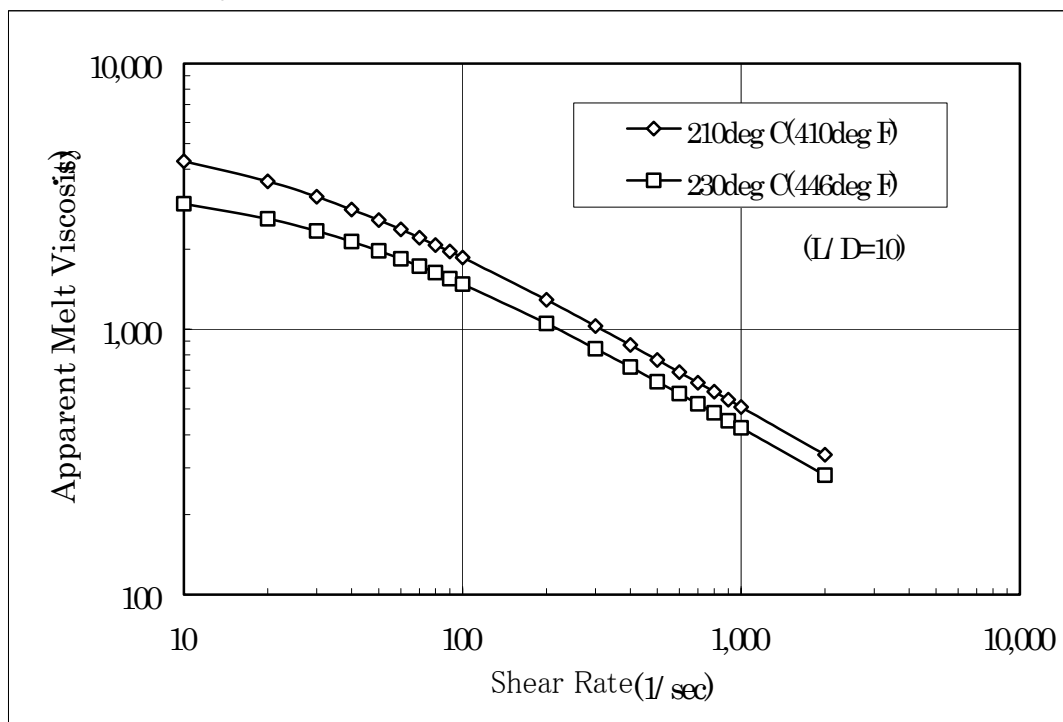


Fig.1 Melt Viscosity of Soarnol DC3203F(B)

[Heat Resist Property]

Heat Cycle Test : 1)30passes with sigle screw extruder at 240deg C,
2)Observation of burnt deposit on die-lip



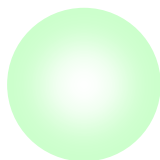
DC3203F



Conventional Grade

Remarkable improvement of burnt deposit





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

[Hygienic Performance of Soarnol DC3203F(B)]

Soarnol DC3203F(B) contains no heavy metals or other harmful substances.
Soarnol DC3203F(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

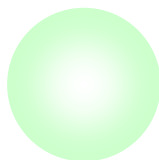
Made of Polyolefins and Certain Polymers

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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