



Attention to processing of "Soarnol®"

Attention must be paid before, during and after molding of "Soarnol[®]" because of its physical and chemical property due to molecular structure of "Soarnol[®]".

(1)Pre-Purge

In case of change-over from LDPE to "Soarnol®", you can use "Soarnol®" directly.

On the other hand, in case of change-over from HDPE , PP or L-LDPE to "Soarnol®", it's preferable to have change-over with LDPE firstly, and you can use "Soarnol®" after that.

Especially, when you use Nylon or PVC before processing of "Soarnol[®]", you can have change-over with "Soarnol[®]" if the residual resins inside a cylinder or a die are removed perfectly by purging these resins with LDPE.

(2)Resin Temperature

Please pay attention to set temperature of cylinder head or die and to screw speed.

(3)Residence Time

Approximately 30 minutes are allowable residence time. In case of long time shutoff of processing, it's recommendable to have low screw speed operation of "Soarnol[®]"'s extruder or to have change-over with LDPE.

(4)After-Purge After-purging with LDPE(MFR=nealy 1) is effective even within short time.

(5)Attention to purging resinPP or HDPE is not good for pre-purging or after-purging resin.Some of these resins causes gel problems after contacting with EVOH.Purging with adhesive resin sometimes causes gel problems.

General conditions of purging are shown in the following.







Real Condition of Pre-Purge or after-Purge with "Soarnol $\ensuremath{\mathbb{R}}$ "

Resin before change \rightarrow	Change-over resin \rightarrow		Resin after change
LDPE, HDPE and PP	LDPE (MI = 5-8)		Soarnol
HDPE and PP (Lower MFI)	LDPE (MI=less than 2)	LDPE (MI=5-8)	Soarnol
Soarnol	LDPE (MI = 0.5 - 2)		LDPE, HDPE and PP
Polyamide	LDPE (MI = $0.5 - 2$) ¹⁾		Soarnol
Soarnol	LDPE (MI = $0.5 - 2^{2}$)		Polyamide
Adhesive resin ³⁾	LDPE (MI = 0.5 - 2)		Soarnol
Soarnol	LDPE (MI = 0.5 - 2)		Adhesive resin ³⁾

1) With temperature down from polyamide extrusion temperature to less than 230deg C.

2) After enough purge of "Soarnol[®]" with LDPE at 200 - 230 deg C, temperature should be rised to polyamide extrusion temperature.

3) Polyolefine base adhesive resin.

Notes: No purging is necessary for changing from one "Soarnol®" quality to another. "Soarnol®" extrusion processing should be shut down after enough after-purging of "Soarnol®" by LDPE (MI=0.5-2).

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