

Soaresin[®] RG100

Regrind Additive for PP/EVOH

Applications

Soaresin RG100 is an additive specifically designed for processing PP/EVOH regrind. This resin is very useful for preventing the formation of gels and fish eyes.

General Properties

<i>Properties</i>	<i>Unit</i>	<i>Value</i>
MFR ¹⁾ (190 degree C, 2160g)	g/10min	2.5
Volatile Matter	%	< 0.3
Melting Point ²⁾	degree C	112

1): Measured with Melt Indexer

2): Measured with DSC, both heating and cooling speeds of 10 C/min

How to use

Blend RG100 with virgin PP by 2 - 3wt% against base material PP quantity.

Effect of Soaresin RG100

Condition of regrind test

Extruder	40mm single screw extruder (L/D=28)
Screw	Full-flight
Screen pack	90mesh x 2
Processing temp.	C1/C2/C3/C4/D=200/220/230/230/220 degree C
Screw rotation	40rpm
Re-extruded times	10times
Resin composition	TiO ₂ +PP/ADH/ET3803/RG100 =90/5/5/3(wt%)

Results of regrind test

Additive	Build-up		Film appearance*		
	die	screw	fish-eyes	surface	Color
RG100	slight	none	slight	flat	uniform
None	many	a little	a little	rough	uneven

*: evaluate by mono-layer film

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