

Soaresin™ RG100

Additive for PP/EVOH Regrind

Application

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

Properties	Unit	Value
MFR ¹⁾ (190 degree C, 2160g)	g/10min	1.0
Volatile Matter	%	< 0.3
Melting Point ²⁾	degree C	112
Density ³⁾ (23 degree C)	g/cm ³	0.97

1): Measured with Melt Indexer

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

3): Measured with Micromeritics Gas Pycnometer

*The above figures are representative values and are not guaranteed.

Melt Viscosity

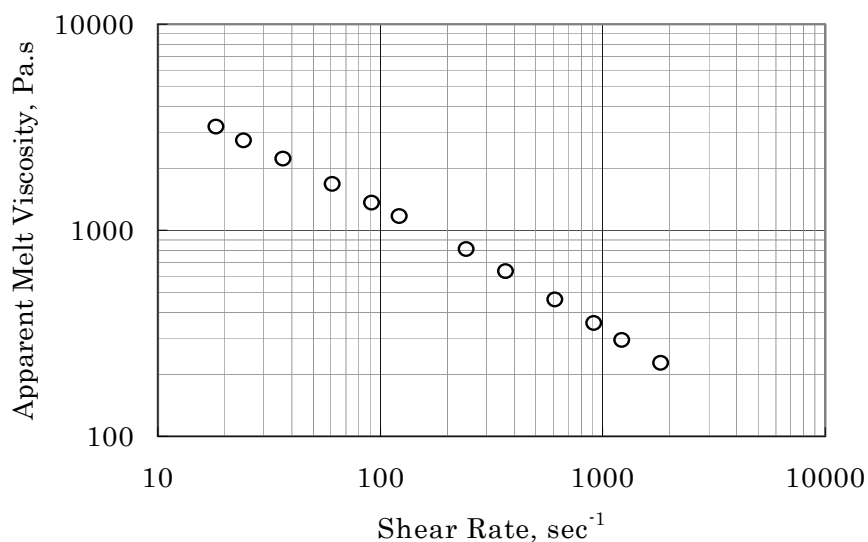


Fig. 1 Melt Viscosity of Soaresin™ RG100

How to use

Blending RG500 into regrind layer by 2 - 5wt% (dry blend with scrap materials).

Effect of Soaresin™ RG100

Condition of regrind test

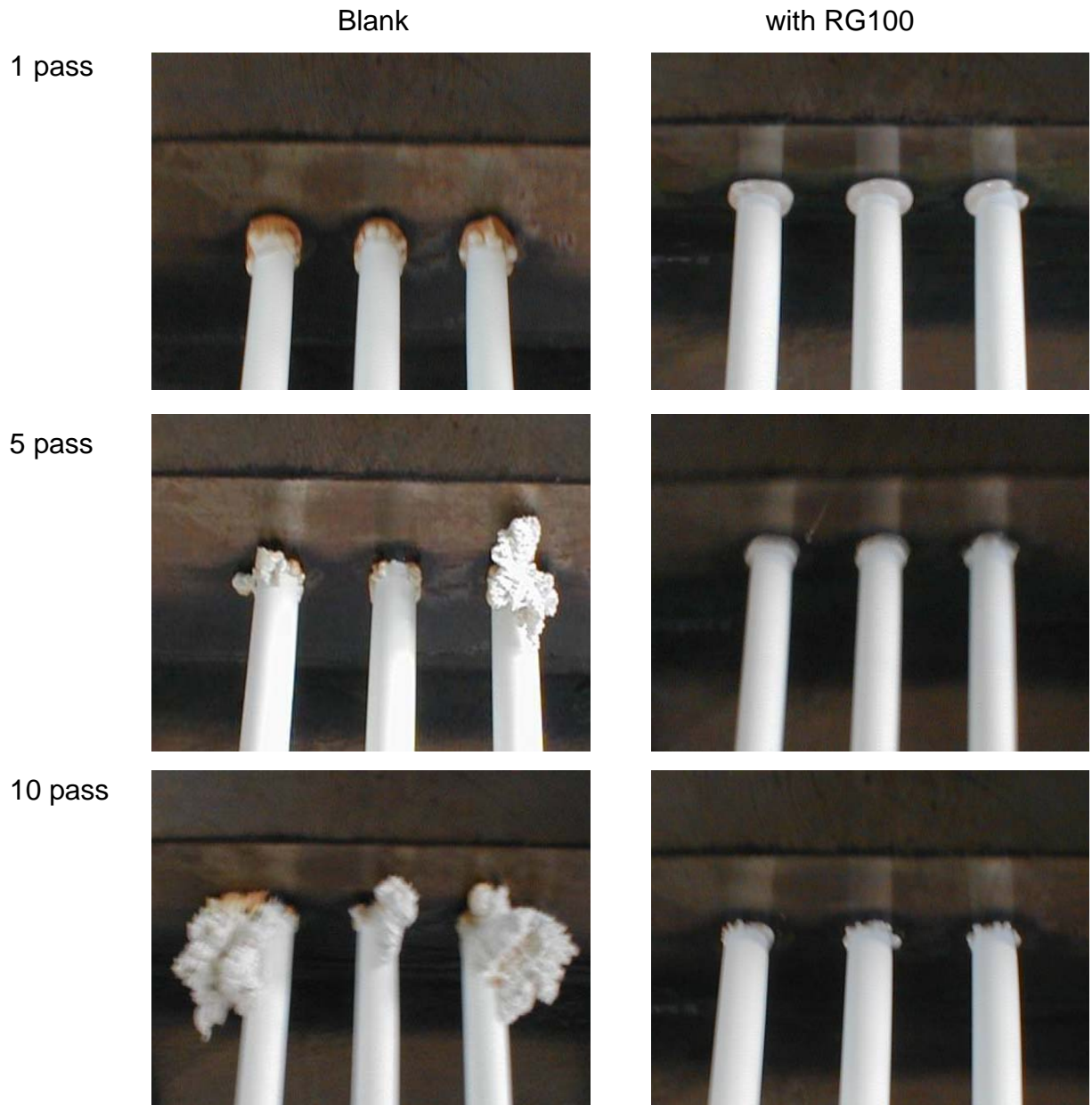
Extruder	40 mm ϕ Single screw extruder (L/D=28)
Screw	Full flight
Screen pack	90mesh \times 2
Processing temp.	C1/C2/C3/C4/D=200/220/230/230/220 ° C
Screw rotation	40rpm
Re-extruded times	10times
Resin composition	TiO ₂ +PP/ADH/ET3803/RG100 =90/5/5/3(wt%)

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

Buildup at die-lip



-> RG100 leads much less buildup.

Quality and Safety for Application of Soaresin™ RG100

High quality Soaresin™ is produced by Mizushima plant in Japan, NOLTEX L.L.C. in U.S.A. and NIPPON GOHSEI UK Ltd. in U.K.. All plants are certified to meet the requirement of ISO 9001.

Soaresin™ contains no heavy metals or other harmful substances. Soaresin™ meets the Food Sanitation Standards of various countries.

JAPAN : Ministry of Health and Welfare Announcement No.370(1959) and Its Latest Amendment No.18(1994)

Voluntary Standards for Food Contact Substances and Polymers (JHOSPA)

U.S.A : Federal Food, Drug and Cosmetic Act

EU : Commission Regulation (EU)No. 10/2011 and its amendments

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