

# Soaresin™ RG500

## High Performance Additive for Polyolefin/EVOH Regrind

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### Application

Soaresin™ RG500 is designed as high performance additive for processing Polyolefin/EVOH regrind such as PP/EVOH and PE/EVOH. This resin is very useful for preventing the formation of gel, buildup and black speck for applications are required high quality.

### General Properties

Properties	Unit	Value
MFR <sup>1)</sup> (190 degree C, 2160g)	g/10min	6.0
Volatile Matter	%	< 0.3
Melting Point <sup>2)</sup>	degree C	70
Density <sup>3)</sup> (23 degree C)	g/cm <sup>3</sup>	1.00

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.

### How to use

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

## Effect of Soaresin™ RG500

### Condition of regrind test

Extruder	40mmφ, L/D=28
Screw	full flight
Screen pack	90/120/90 mesh
Processing temp.	C1/C2/C3/C4/D=180/200/220/230/230 degree C
Screw rotation	40rpm
Re-extruded times	5times
Resin composition	PP/Tie/EVOH/RG500=90/1/5/4 wt%

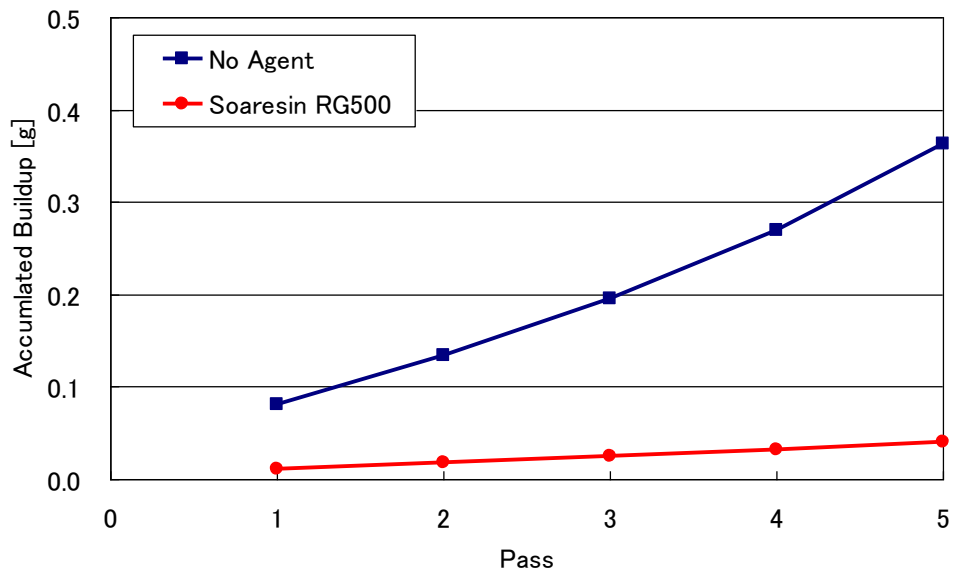
### Results of regrind test

#### (1) Summary

Additive	Build-up		Film appearance <sup>1)</sup>	
	die	screw	gel	surface
RG500	slight	none	slight	smooth
None	many	some	many	Rough

1): evaluate by mono-layer film

#### (2) Amount of Buildup



RG500 leads much less buildup.

## Quality and Safety for Application of Soaresin™ RG500

High quality Soaresin™ is produced by Okayama 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.

Please contact us to inquire about food product hygiene for the various Soaresin™ brands or for food hygiene conformity in other countries.

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

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)

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

CHINA : GB9685, GB4806.6 and their amendments

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