

## REPSOL RYLEWAX

### PROCESS AIDS

#### Description

Repsol commercializes process aids under the name of **REPSOL RYLEWAX**.

These **REPSOL RYLEWAX** products act as process aids in the manufacture of polymers improving processability, reducing time and energy during mixing without modifying its final properties.

#### Applications

**REPSOL RYLEWAX P, MV and AV** are polyethylene waxes with a high melting point and low viscosity, suitable for various industrial uses. They meet the most demanding regulations for indirect food contact; therefore, they can be used as a raw material for hot-melts, adhesives and glues.

They are very linear waxes (over 90%), which allows them to raise the melting point in mixtures without significantly increasing the viscosity, improving hot-melt application. They also work well as a melting point modifier for waxes derived from petroleum, and as a raw material for rubber mixtures. Due to their linear structure, they are suitable as a processing aid to improve the flow properties of the product, lowering the viscosity of the mixtures and improving the filling and detaching of the mould part.

They are also suitable as a master batch in the dispersion of fillers and pigments in different polymers. The recommended dosage is 1 – 4 phr.

**REPSOL RYLEWAX 16** is a complex mixture of calcium salts and fatty amides that is an effective process aid in rubber manufacturing, offering enhanced processability without affecting end properties. The characteristics of REDEX 16 can improve blends by acting at different points:

- Increased plasticity in the crude blend.
- Decreased viscosity in the blend.
- Increased extrusion speed (output rate).
- Improved parts finishing, facilitating mould release.
- Improved dispersion and homogeneity in the rubber compounds.

Repsol Rylewax 16 is especially suited for manufacturing rubber parts, tyres and technical rubber (profiles). In the processing of natural rubbers (NR) or synthetic rubbers (SBR, NBR, CR and EPDM), it improves compound dispersion and decreases viscosity in the blend without affecting end properties. It is ideal for injection, extrusion, calendaring processes. Suitable for systems with high silica-containing compounds.

The recommended dosage is 1 – 4 phr. Its addition in the internal mixer or the mill together with the fillers is recommended.

#### Available in

- Beads in 25 Kg bags (Repsol Rylewax P)
- Powder in 20 Kg bags. (Repsol Rylewax P)
- Powder in 25 Kg (Repsol Rylewax AV y MV)
- Powder big-bag of 500 kg (Repsol Rylewax P)

*\*Please verify the availability of the different formats with your local sales representative*

# REPSOL RYLEWAX

## PROCESS AIDS

### Regulations

FDA 21 CFR 177.1520, 175.105, 172.886, 172.888 for Repsol Rylewax AV, MV y P  
 EU Directive 94/62/EC, Directive 2005/79/EC, 2002/72/EC for Repsol Rylewax AV, MV y P

### Technical characteristics

	Unity	Method	Repsol Rylewax 16	Repsol Rylewax P	Repsol Rylewax AV	Repsol Rylewax MV
Melting point	°C	ASTM D 127	100 typical	110 min	110 typical	100 min
Ash at 850°C	% mass	ASTM D 482	3 max.	-	-	-
Acidity	mg KOH/gr	Calculation	35 max	0	0	0
Bookfield Viscosity at 150°C	cP	IT.LAB.139	-	10 min	85 typical	25 typical
Colour		VISUAL	-	White	White	White
Density 25°C	g/cm3	ASTM D 729		0,91-0,94	0,91-0,94	0,94 typical
Penetration	mm/10	ASTM D 1321		3 max	8 max	3 max
Molecular Weight		GPC		> 2000	1500 typical	1500 typical

Unless otherwise indicated, the values presented in the technical data should be considered as typical values.