ABRIL 7731

Improves Rheological Properties

A non-hazardous synthetic wax of a fatty acid amide ester with a low melting point. This unique product has been developed for use as a lubricant in the compounding and processing of thermoplastics, providing efficient internal and external lubricity.
Abril 7731 improves the rheological properties during processing, resulting in lower power requirements. The relatively low melting point results in rapid and thorough dispersion of colour pigments, flame retardants, fibre reinforcements and other additives in thermoplastic compounds. Improved cycle times and product consistency contribute directly to the cost effectiveness and quality assurance of the compounding process.

CAS No 14351-40-7 EINECS 238-310-5

POLYMER COMPOUNDING, MASTERBATCHING EXTRUSION AND INJECTION MOULDING:

✓ **Polyamides**	- *Improved melt flow*
✓ **Polypropylene**	- *Efficient dispersant*
✓ **TPU's**	- *Anti-tack additive*
✓ **Extruding/ Injection Moulding**	- *Aids plastification & enhances flow*
✓ **Emulsions**	- *Forms very stable emulsions*

1. POLYAMIDES (Improved melt flow)

This product is a highly effective lubricant when used in impact modified polyamides notoriously difficult to process due to their high viscosity. Additions of Abril 7731 will improve melt flow, produce rapid mould release and exhibit rapid dispersion properties.

2. POLYPROPYLENE (Efficient dispersant)

Abril 7731 is an efficient dispersant and lubricant for fibre filled polypropylene compounds where it provides good lubrication and rapid wetting of the filler.

3. EXTRUDING/INJECTION MOULDING

When added to polymer pellets prior to extruding or injection moulding Abril 7731 will aid plastification and enhance flow, which in turn will reduce machine load, wear and mould times.

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4. EMULSIONS

Abril 7731 is a hard wax but readily forms very stable emulsions without the need for high shear processes. The tolerable pH range lies between Ph 5.0 and pH 11.0. Both anionic and non- ionic emulsifiers may be used to form mobile emulsions at a concentration of 20% by weight.
At higher concentrations (25% - 35%) the emulsion will set on cooling to a soft cream or paste. The use of small amounts of Abril 7731 can aid the production of finely dispersed paraffin wax emulsions of great stability.
Synthetic resin emulsion coatings used in the paper and board industry can often benefit from the inclusion of Abril 7731, which will reduce blocking and increase the slip properties.

Toxicological Status

U.S Food and Drug Administration (FDA)	**British Industrial Biological Research Association (B.I.B.R.A)**
Regulated for use under the following 21 CFR 177.1200 Cellophane	For plastic in food contact applications Abril 7731 is cleared use in all polymers up to an addition rate of 3% w/w in the final compound.

Typical Properties

Melting Point	78-82^{o}C
Acid Value	23 mg KOH/gm
Specific Gravity	0.97 gm/cc
Gardner Colour	5 maximum
Flash Point	300 ^{o}C
Thermal Stability	Up to 240 ^{o}C

Addition Rates

Optimum addition rates vary between 0.1% and 2.5% depending on the base polymer and performance level required.

Physical Form – Fine Bead

This is the coarsest grade of atomised product produced and its free flowing properties find a ready acceptance in many industries.

Physical Form – Bead

PACKAGING: Abril 7731 is supplied in 20 kg paper bags.

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