









# LOXIOL® P 861/3.5

**Lubricant / Release Agent** 

## **Description**

LOXIOL® P 861/3.5 is a long-chain fatty acid ester of pentaerythritol.

# **General Appearance**

Solid, odorless Available as powder or beads

## **Specified Data**

Parameter	Value	Test Method*
Dropping point (°C)	60 - 65	DIN ISO 2176   AOCS Cc 18-80
Acid value (mg KOH/g)	0 - 1.5	DIN EN ISO 2114   AOCS Te 1a-64
Hydroxyl value (mg KOH/g)	20 - 37	DIN 53240   AOCS Cd 13-60
Saponification value (mg KOH/g)	187 - 201	DIN EN ISO 3681   AOCS TI 1a-64
Color Lovibond 1" yellow	0 - 2.5	DGF C-IV 4b   AOCS Cc 13e-92
Color Lovibond 1" red	0 - 1.5	DGF C-IV 4b   AOCS Cc 13e-92

<sup>\*</sup> Test method: DIN (Europe) | AOCS (Asia)

# **Properties and Applications**

This thermostable ester with its minimum volatility is suitable as a processing agent for various types of thermoplastics.

In the injection molding of polycarbonate, PET, PBT, PMMA and polyacetal, LOXIOL® P 861/3.5 prevents the polymer melt from sticking to the hot machine parts and facilitates mold release at higher temperatures. That makes it possible to use molds with a complex geometry. In addition, it improves the feed behaviour and prevents the granules from melting in the feed zone (bridge formation).

LOXIOL® P 861/3.5 also has a favorable influence on the tool filling speed, which improves the surface properties of the finished articles. Polycarbonate and PMMA containing 0.1 to 0.5 % LOXIOL® P 861/3.5 remain transparent and color stable.

LOXIOL® P 861/3.5 may be used as antiblock additive for biaxially oriented polyester films improving further resistance abrasion.

Depending on its use as internal and external lubricant, LOXIOL® P 861/3.5 is commonly added at dosages of about 0.2 to 1.0 %.













# **Recommended Dosage**

0.1 - 0.5 % for PC and PMMA 0.2 - 1.0 % for other resins

#### Density

Product Form	Temperature	Value
Solid Density	20 °C	0.957 g/cm³
Powder-Bulk Density	20 °C	0.54 g/cm³
Beads-Bulk Density	20 °C	0.53 g/cm³

## **Certifications**

LOXIOL® P 861/3.5 is registered in compliance with the EU REACH regulation. LOXIOL® P 861/3.5 complies with indirect food contact directives. Further information is available upon request.

# **Health and Safety Information**

Please review our Safety Data Sheet for best practices when using this material.

#### **Packaging Sizes**

Bags, 25 kg Big bags, 900 kg

LOXIOL® P 861/3.5 can be purchased as liquid material in heated tank-trucks upon request.

### Storage and Handling

It is recommended to store LOXIOL® P 861/3.5 at room temperature and to protect the product against the effects of heat and frost. If stored in sealed original packaging, LOXIOL® P 861/3.5 should be stable for at least 24 months from the date of manufacture.

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