

# Crodamide™ ER

## General

|                      |                                   |
|----------------------|-----------------------------------|
| Chemical description | Erucamide                         |
| Physical form        | Powder, microbead, bead, pastille |
| Origin               | Vegetable                         |
| CAS                  | 112-84-5                          |
| EINECS               | 204-009-2                         |

## Applications

Crodamide ER is very effective as a slip agent in polyolefins providing high slip at low dosage levels.

## Mode of action

Crodamide ER can be dispersed evenly through the polymer in the melt phase. It migrates to the surface of the polymer where it forms a thin lubricating layer. This layer reduces coefficient of friction between surfaces and prevents any unwanted adhesion.

## Features and benefits

- High slip
- Mold release
- Torque release
- Scuff resistance

## Recommended polymers

- All polyolefins
- PVC
- EVA
- Nylon
- TPE

## Guidelines for use

Crodamide ER is an internal additive and can be incorporated into resin as supplied or via masterbatch / pre-blend. Experience has shown that simple manual mixing prior to processing will normally give an acceptable dispersion though, mechanical means are preferred.

Typical addition levels vary depending on polymer and lubrication required. Croda recommends around 500 – 2000 ppm in films and 0.2 – 1.0% in molding applications.

**CRODA**  
Polymer Additives

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| Specification        |       |       |                       |
|----------------------|-------|-------|-----------------------|
|                      | Lower | Upper | Units                 |
| Acid value           | 0     | 1.0   | mg KOH/g              |
| Iodine value         | 75    | 82    | gI <sup>2</sup> /100g |
| Melting point        | 78    | 81    | °C                    |
| Colour Gardner       | 0     | 2     |                       |
| Colour Hazen         | 1     | 400   |                       |
| Moisture (Bead)      | 0     | 0.4   | %                     |
| Moisture (Microbead) | 0     | 0.1   | %                     |
| Moisture (Pastille)  | 0     | 0.1   | %                     |
| Moisture (Powder)    | 0     | 0.2   | %                     |
| Amide purity         | 98    | 100   | %                     |

#### Physical form, packaging and storage

Crodamide ER can be supplied as either, powder, microbead, bead or pastille in 25 kg bags as standard.

Croda recommends storing Crodamides in a dry well ventilated place at 25°C (77°F) max. Prolonged storage over 35°C (95°F) or in direct sunlight can cause agglomeration and discoloration. Shelf life of 365 days.

#### Health and safety data

Crodamide ER is considered to be non-toxic and is not expected to be irritating to skin and eyes. Material safety data sheets (MSDS) are available upon request

#### Inventory status

|             |        |             |               |
|-------------|--------|-------------|---------------|
| TSCA        | Listed | DSL         | Listed        |
| AICS        | Listed | PICCS       | Listed        |
| IECSC       | Listed | MITI        | (2)-981       |
| Austria     | EINECS | KECI        | KECI=KE-12791 |
| Switzerland | EINECS | New Zealand | Listed        |

Food contact statements are available upon request

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