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BASF SE

# Ultramid® C40 L

## Product description

Ultramid® C40 L is a lubricated copolyamide 6/66 grade of high viscosity for the production of monofilaments and blown film. Ultramid® C40 L is well suited for the production of high transparency, nonsymmetric blown film with reduced curl. Its very low melting point compared to standard PA 6 is advantageous for coextrusion with temperature sensitive polymers like EVOH.

| Specification   | Test method   | Unit    | Value       |
|---|---|---------|-------------|
| Relative Viscosity (RV)<br>1% [m/v] in 96% [m/m]<br>sulfuric acid | According to ISO 307<br>(calculated by Huggins<br>method) |         | 3.89 - 4.17 |
| Viscosity Number (VN)<br>0,5% [m/v] in 96%<br>[m/m] sulfuric acid | According to ISO 307                                      | ml/g    | 240 - 260   |
| Moisture content  | According to ISO 15512                                    | % [m/m] | max. 0.06   |
| Extractables  | According to ISO 6427-<br>chips not ground/16h            | % [m/m] | max. 0.8    |
| Lubricant   | BASF method   | (mg/kg) | 250 - 550   |
| Film grade  | BASF method   |         | 1 - 3       |

## General properties

|  | Test method           | Unit              | Typical<br>value |
|--|-----------------------|-------------------|------------------|
| Melting point                                    | According to ISO 3146 | °C                | 188 - 190        |
| Density  | According to ISO 1183 | g/cm <sup>3</sup> | 1.12             |
| Bulk density                                     |                       | kg/m <sup>3</sup> | 780              |
| Pellet size                                      |                       | mm                | 2 - 2.5          |
| Pellet shape                                     |                       |                   | round            |
| Water absorption,<br>23°C/50% rh                 |                       | %                 | 3.2              |
| Water absorption,<br>saturation in<br>water 23°C |                       | %                 | 10.5             |

**Supply form and storage**

Ultramid® C40 L is supplied pre-dried and ready for processing in a variety of moisture proof containers, such as bags, boxes, bigbags (Asia) and bulk containers. The material must be protected against moisture during storage. A storage time in packed form of 6 months should not be exceeded. Opened bags should be used up immediately in order to prevent moisture pickup. While unloading bulk containers and storing Ultramid® C40 L in silos, handling instructions defined in a specific information sheet have been taken in consideration.

**Food legislation**

Ultramid® film grades (Ultramid® B, C) comply with the current legislation on plastics in contact with food in Europe, USA and China. If you need details on the food approval status of a particular Ultramid® grade, please contact BASF directly at [plastics.safety@basf.com](mailto:plastics.safety@basf.com). We will be happy to provide you with an up-to-date declaration of conformity based on the current legal regulations.

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**Further information**

**[www.basf.com](http://www.basf.com)**

|         |  |                        |
|---------|--|------------------------|
| Europe: | <a href="mailto:extrusion.ultramid@basf.com">extrusion.ultramid@basf.com</a> | Tel.: +49 621 60 42888 |
| NAFTA:  | <a href="http://www.plasticsportal.com">www.plasticsportal.com</a>           | Tel.: +1 800 527 8324  |
| Asia:   | <a href="mailto:polymer-hk@basf.com">polymer-hk@basf.com</a>                 | Tel.: +852 2731 1247   |