



# SABIC® LDPE 2202U0

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2202U0 is an Ultra Melt Strength (UMS) grade typically used in foam applications.

#### Application

SABIC® LDPE 2202U0 can be typically used for all types of foam, produced with chemical blowing agents or physical gases, X-linked and non X-linked.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

### TYPICAL PROPERTY VALUES

Revision 20200221

| PROPERTIES                         | TYPICAL VALUES | UNITS             | TEST METHODS |
|------------------------------------|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>          |                |                   |              |
| <b>Melt Flow Rate (MFR)</b>        |                |                   |              |
| at 190 °C and 2.16 kg              | 1.9            | dg/min            | ISO 1133     |
| <b>Density</b>                     | 922            | kg/m <sup>3</sup> | ASTM D1505   |
| <b>MECHANICAL PROPERTIES</b>       |                |                   |              |
| <b>Modulus of elasticity</b>       | 260            | MPa               | SABIC method |
| <b>Hardness Shore D</b>            | 46             | -                 | ISO 868      |
| <b>THERMAL PROPERTIES</b>          |                |                   |              |
| <b>Vicat Softening Temperature</b> |                |                   |              |
| at 10 N (VST/A)                    | 90             | °C                | ISO 306      |
| <b>DSC test</b>                    |                |                   |              |
| melting point                      | 108            | °C                | DIN 53765    |
| avg. heat of fusion                | 110            | J/g               | DIN 53765    |
| crystallization temperature        | 97             | °C                | DIN 53765    |

### STORAGE AND HANDLING

Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

### ENVIRONMENT AND RECYCLING

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

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