# SABIC® LDPE 2602H0W

LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC® LDPE 2602H0W is a grade with very good optical properties. The grade contains no additives, has an increased density and shows a good draw down ability. The films are characterized by good mechanical properties.

Application
SABIC® LDPE 2602H0W is typically used for applications where enhanced stiffness is required.
SABIC® LDPE 2602H0W can typically be used for food applications due to very low migration levels.

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

## TYPICAL PROPERTY VALUES

Revision 20211208

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **POLYMER PROPERTIES** | | | |
| **Density** | 926 | kg/m³ | ISO 1183 |
| **Melt Flow Rate (MFR)** | | | |
| at 190 °C and 2.16 kg | 1.9 | dg/min | ISO 1133 |
| **OPTICAL PROPERTIES** | | | |
| **Gloss (45°)** | 70 | ‰ | ASTM D2457 |
| **Haze** | 6 | % | ASTM D1003 |
| **FILM PROPERTIES** | | | |
| **Impact strength** | 15 | kJ/m | ASTM D4272 |
| **Tear strength TD** | 40 | kN/m | ISO 6383-2 |
| **Tear strength MD** | 90 | kN/m | ISO 6383-2 |
| **Tensile test film** | | | |
| Modulus of elasticity MD | 250 | MPa | ISO 527-3 |
| Yield stress TD | 13 | MPa | ISO 527-3 |
| Modulus of elasticity TD | 260 | MPa | ISO 527-3 |
| Stress at break MD | 30 | MPa | ISO 527-3 |
| Stress at break TD | 20 | MPa | ISO 527-3 |
| **Tensile test film** | | | |
| Strain at break MD | >300 | % | ISO 527-3 |
| Strain at break TD | >500 | % | ISO 527-3 |
| **Coefficient of friction** | >1 | - | ASTM D1894 |
| **Blocking** | 10 | g | SABIC method |
| **Re-blocking** | 30 | g | SABIC method |
| **THERMAL PROPERTIES** | | | |
| **Vicat Softening Temperature** | | | |
| at 10 N (VST/A) | 99 | °C | ISO 306 |

## 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.

## 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.

## DISCLAIMER