

## Technical Data Sheet

### *Icorene* 3590-500 YEW 2248D



Linear Low Density Polyethylene

#### Product Description

*Icorene* 3590 is a linear low density polyethylene specifically developed for rotational moulding. This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness, easy flow and stiffness.

#### Regulatory Status

For regulatory compliance information, see *Icorene* 3590-500 YEW 2248D [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| Status            | Commercial: Active                                                                             |
| Availability      | Europe                                                                                         |
| Processing Method | Rotomolding                                                                                    |
| Attribute         | Good Flow; Good Moldability; Good Processability; Good Stiffness; Good Toughness; UV Resistant |
| Forms             | Powder                                                                                         |
| Appearance        | Natural Color; Unspecified Color                                                               |
| Additive          | UV Stabilizer                                                                                  |
| Application       | General Purpose                                                                                |

| Typical Properties                                                            | Nominal Value | Units             | Test Method |
|-------------------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                               |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                                              | 9.0           | g/10 min          | ASTM D1238  |
| Density                                                                       | 0.935         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                                             |               |                   |             |
| Tensile Strength at Yield                                                     | 17.0          | MPa               | ISO 527     |
| Tensile Strength at Break                                                     | 16.0          | MPa               | ISO 527     |
| Environmental Stress Crack Resistance, (Condition B, F50, 100% Igepal, 50 °C) | >150          | hr                | ASTM D1693  |
| Flexural Modulus                                                              | 550           | MPa               | ISO 178     |
| <b>Impact</b>                                                                 |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method)                             | 160           | J/cm              | ASTM D4226  |
| <b>Hardness</b>                                                               |               |                   |             |
| Durometer Hardness, (Shore D)                                                 | 53            |                   | ISO 868     |
| <b>Thermal</b>                                                                |               |                   |             |
| Vicat Softening Temperature, (A (10N))                                        | 113           | °C                | ISO 306     |
| Melting Temperature                                                           | 126           | °C                | DSC         |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2018

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.