

## Technical Data Sheet

### *Icorene* 3546 YEW 2125



Linear Low Density Polyethylene

#### Product Description

*Icorene* 3546 Linear Low Density polyethylene is a Hexene copolymer, specifically developed for rotational moulding. This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow and stiffness.

#### Regulatory Status

For regulatory compliance information, see *Icorene* 3546 YEW 2125 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

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

| Typical Properties                                                                       | Nominal Value | Units             | Test Method |
|------------------------------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                                          |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                                                         | 4.1           | g/10 min          | ASTM D1238  |
| Density                                                                                  | 0.935         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                                                        |               |                   |             |
| Tensile Strength at Yield                                                                | 14.0          | MPa               | ISO 527     |
| Tensile Strength at Break                                                                | 17.0          | MPa               | ISO 527     |
| Environmental Stress Crack Resistance, (Compression Molded, 100% Igepal, 50 °C, 1.90 mm) | >1000         | hr                | ASTM D1693  |
| Flexural Modulus                                                                         | 450           | MPa               | ISO 178     |
| Tensile Elongation at Break                                                              | 650           | %                 | ASTM D638   |
| <b>Thermal</b>                                                                           |               |                   |             |
| Vicat Softening Temperature, (A (10N))                                                   | 112           | °C                | ISO 306     |
| Melting Temperature                                                                      | 121           | °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/>.

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