

## Technical Data Sheet

### *Icorene* 1339 GRY 7456

High Density Polyethylene

#### Product Description

*Icorene* 1339 is a hexene high density polyethylene specifically developed for use in rotational moulding. This grade has been designed for applications requiring higher stiffness and toughness. *Icorene* 1339 is also available as a Black powder.

|                          |   |
|--------------------------|---|
| <b>Processing Method</b> | Rotomolding   |
| <b>Attribute</b>         | Good Impact Resistance; Good Stiffness; Good Toughness; Hexene Comonomer; High Rigidity; UV Resistant |
| <b>Forms</b>             | Powder  |
| <b>Appearance</b>        | Black; Colors Available; Natural Color  |
| <b>Additive</b>          | UV Stabilizer   |
| <b>Application</b>       | Tanks   |

| Typical Properties   | Nominal Value | Units             | Test Method |
|--|---------------|-------------------|-------------|
| <b>Physical</b>  |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                           | 3.0           | g/10 min          | ASTM D1238  |
| Density  | 0.943         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>  |               |                   |             |
| Tensile Strength at Yield, (23 °C, Type I)                 | 21.0          | MPa               | ISO 527     |
| Environmental Stress Crack Resistance                      |               |                   |             |
| (Condition B, Rotational Molded, 10% Igepal CO-630, 50 °C) | >400          | hr                | ASTM D1693  |
| (Condition B, F50, 100% Igepal CO-630, 50 °C)              | 1000          | hr                | ASTM D1693  |
| Flexural Modulus, (23 °C)                                  | 900           | MPa               | ISO 178     |
| Tensile Elongation at Break                                | >1000         | %                 | ASTM D638   |
| <b>Impact</b>  |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method)          | >200          | J/cm              | ASTM D4226  |
| <b>Hardness</b>  |               |                   |             |
| Durometer Hardness, (Shore D)                              | 63            |                   | ASTM D2240  |
| <b>Thermal</b>   |               |                   |             |
| Vicat Softening Temperature, (A (10N))                     | 119           | °C                | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa)    | 75            | °C                | ISO 75-2/B  |
| Melting Temperature  | 128           | °C                | ISO 11357-3 |

## 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.