

## Technical Data Sheet

### *Icorene* 1339 GRN 6136



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.

#### Regulatory Status

For regulatory compliance information, see *Icorene* 1339 GRN 6136 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------|
| Status            | Commercial: Active                                                                                    |
| Availability      | Europe                                                                                                |
| Processing Method | Rotomolding                                                                                           |
| Attribute         | Good Impact Resistance; Good Stiffness; Good Toughness; Hexene Comonomer; High Rigidity; UV Resistant |
| Forms             | Powder                                                                                                |
| Appearance        | Black; Colors Available; Natural Color                                                                |
| Additive          | UV Stabilizer                                                                                         |
| Application       | 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/>.

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