

## Technical Data Sheet

### *Icorene* 1613 UV+ RED 4759



Polyethylene, Linear Medium Density

#### Product Description

*Icorene* 1613 is a hexene linear medium density polyethylene specifically developed for use in rotational moulding. This grade is designed for applications requiring good processability, stiffness and toughness. The constituents of this product are suitable for food contact applications. *Icorene* 1613 is TÜV approved, protocolnr 175XS0124-00.

#### Regulatory Status

For regulatory compliance information, see *Icorene* 1613 UV+ RED 4759 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------|
| Status            | Commercial: Active                                                                                          |
| Availability      | Europe                                                                                                      |
| Processing Method | Rotomolding                                                                                                 |
| Attribute         | Good Impact Resistance; Good Processability; Good Stiffness; Good Toughness; Hexene Comonomer; UV Resistant |
| Forms             | Powder                                                                                                      |
| Appearance        | Natural Color; Unspecified Color                                                                            |
| Additive          | UV Stabilizer                                                                                               |
| Application       | Tanks                                                                                                       |

| Typical Properties                                             | Nominal Value | Units             | Test Method |
|----------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                               | 4.5           | g/10 min          | ISO 1133    |
| Density, (23 °C)                                               | 0.938         | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                              |               |                   |             |
| Tensile Strength at Yield, (23 °C, 3.20 mm, Rotational Molded) | 20.0          | MPa               | ISO 527-1   |
| Environmental Stress Crack Resistance                          |               |                   |             |
| (Condition B, F50, 10% Igepal, 50 °C)                          | >250          | hr                | ASTM D1693  |
| (Condition B, F50, 100% Igepal, 50 °C)                         | >1000         | hr                | ASTM D1693  |
| Flexural Modulus, (23 °C)                                      | 750           | MPa               | ISO 178     |
| Tensile Elongation at Break, (Rotational Molded)               | >1000         | %                 | ISO 527-1   |
| <b>Impact</b>                                                  |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method)              | >200          | J/cm              | ASTM D4226  |
| <b>Hardness</b>                                                |               |                   |             |
| Shore Hardness, (Shore D)                                      | 62            |                   | ISO 868     |
| <b>Thermal</b>                                                 |               |                   |             |
| Vicat Softening Temperature, (A (10N))                         | 117           | °C                | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa)        | 65            | °C                | ISO 75-2/B  |
| Melting Temperature                                            | 127           | °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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