

## Technical Data Sheet

### Icorene 1761

Metallocene Linear Low Density Polyethylene  
LyondellBasell Industries  
Rotomolding

#### Product Description

ICORENE® 1761 is a metallocene linear low density polyethylene for rotational moulding applications.

This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow, high impact, and surface gloss.

| General           |                                 |                                          |                |
|-------------------|---------------------------------|------------------------------------------|----------------|
| Additive          | • UV Stabilizer                 |                                          |                |
| Features          | • Good Toughness<br>• High Flow | • High Gloss<br>• High Impact Resistance | • UV Resistant |
| Uses              | • General Purpose               | • Molds/Dies/Tools                       |                |
| Appearance        | • Natural Color                 | • Unspecified Color                      |                |
| Forms             | • Powder                        |                                          |                |
| Processing Method | • Rotational Molding            |                                          |                |

| Physical                                           | Nominal Value (English) | Nominal Value (SI) | Test Method     |
|----------------------------------------------------|-------------------------|--------------------|-----------------|
| Density                                            | 0.935 g/cm³             | 0.935 g/cm³        | ASTM D1505      |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)          | 6.0 g/10 min            | 6.0 g/10 min       | ASTM D1238      |
| Environmental Stress-Cracking Resistance (ESCR)    |                         |                    | ASTM D1693      |
| 10% Igepal                                         | > 300 hr                | > 300 hr           |                 |
| 100% Igepal                                        | > 1000 hr               | > 1000 hr          |                 |
| Mechanical                                         | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Tensile Strength                                   |                         |                    | ISO 527-2       |
| Yield                                              | 2610 psi                | 18.0 MPa           |                 |
| Break                                              | 1600 psi                | 11.0 MPa           |                 |
| Tensile Elongation (Break)                         | > 800 %                 | > 800 %            | ASTM D638       |
| Flexural Modulus                                   | 102000 psi              | 700 MPa            | ISO 178         |
| Impact                                             | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Drop Impact Resistance <sup>1</sup> (-4°F (-20°C)) | 4.27 in·lb/mil          | 190 J/cm           | Internal Method |
| Thermal                                            | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Vicat Softening Temperature                        | 250 °F                  | 121 °C             | ISO 306         |
| Melting Temperature                                | 253 °F                  | 123 °C             | ISO 11357       |

#### Notes

<sup>1</sup> Based on ISO 6603

#### Notes

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