

## Icorene 3545

Linear Low Density Polyethylene  
LyondellBasell Industries  
Rotomolding

### Product Description

ICORENE® 3545 is a linear low density polyethylene 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.

### General

|                   |                                  |                                           |                                    |
|-------------------|----------------------------------|-------------------------------------------|------------------------------------|
| Additive          | • UV Stabilizer                  |                                           |                                    |
| Features          | • General Purpose<br>• Good Flow | • Good Processability<br>• Good Toughness | • High Stiffness<br>• UV Resistant |
| Uses              | • Containers                     | • General Purpose                         | • Tanks                            |
| 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)                                         | 4.5 g/10 min            | 4.5 g/10 min       | ASTM D1238      |
| Environmental Stress-Cracking Resistance (ESCR)<br>122°F (50°C), 100% Igepal, F50 | > 150 hr                | > 150 hr           | ASTM D1693B     |
| Mechanical                                                                        | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Tensile Strength                                                                  |                         |                    | ISO 527         |
| Yield                                                                             | 2610 psi                | 18.0 MPa           |                 |
| Break                                                                             | 3050 psi                | 21.0 MPa           |                 |
| Flexural Modulus                                                                  | 79800 psi               | 550 MPa            | ISO 178         |
| Impact                                                                            | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Drop Impact Resistance <sup>1</sup> (-4°F (-20°C))                                | 3.93 in·lb/mil          | 175 J/cm           | Internal Method |
| Hardness                                                                          | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Durometer Hardness (Shore D)                                                      | 54                      | 54                 | ISO 868         |
| Thermal                                                                           | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Vicat Softening Temperature                                                       | 237 °F                  | 114 °C             | ISO 306/A       |
| Melting Temperature                                                               | 259 °F                  | 126 °C             | DSC             |

### Notes

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

### Notes

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

