

## Icorene 3590 AS

Linear Low Density Polyethylene  
LyondellBasell Industries  
Rotomolding

### Product Description

ICORENE® 3590 AS is a linear low density polyethylene with antistatic additives specifically developed for rotational moulding.

This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness, easy flow and stiffness.

| General           |                                                        |                                                               |                |
|-------------------|--------------------------------------------------------|---------------------------------------------------------------|----------------|
| Additive          | • Antistatic                                           | • UV Stabilizer                                               |                |
| Features          | • General Purpose<br>• Good Flow<br>• Good Moldability | • Good Processability<br>• Good Stiffness<br>• Good Toughness | • UV Resistant |
| Uses              | • General Purpose                                      |                                                               |                |
| 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)          | 9.0 g/10 min            | 9.0 g/10 min       | ASTM D1238      |
| Mechanical                                         | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Tensile Strength (Yield)                           | 2470 psi                | 17.0 MPa           | ISO 527         |
| 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)) | 3.60 in·lb/mil          | 160 J/cm           | Internal Method |
| Hardness                                           | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Durometer Hardness (Shore D)                       | 56                      | 56                 | ASTM D2240      |
| Thermal                                            | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Vicat Softening Temperature                        | 235 °F                  | 113 °C             | ISO 306/A       |
| Melting Temperature                                | 259 °F                  | 126 °C             | DSC             |
| Electrical                                         | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Surface Resistivity                                | 10 ohms                 | 10 ohms            | ASTM D257       |

### Notes

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

### Notes

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

