

# ICORENE® 1062 ESF

Linear Low Density Polyethylene  
Rotomolding

## Product Description

ICORENE® 1062 is the "next generation" enhanced surface finish polyethylene, specifically developed for rotational moulding.

This grade is designed to remove the surface pinholes during processing for applications such as hygienic, medical, furniture and design applications. ICORENE® 1062 ESF is easy to process, has a good flow and good physical properties.

## General

|                   |                                  |                                             |                                    |
|-------------------|----------------------------------|---------------------------------------------|------------------------------------|
| Material Status   | • Commercial: Active             |                                             |                                    |
| Availability      | • Europe                         |                                             |                                    |
| Additive          | • UV Stabilizer                  |                                             |                                    |
| Features          | • General Purpose<br>• Good Flow | • Good Moldability<br>• Good Processability | • Good Stiffness<br>• UV Resistant |
| Uses              | • Food Containers<br>• Furniture | • General Purpose<br>• Hygiene              | • Toys                             |
| Appearance        | • Unspecified Color              | • White                                     |                                    |
| Forms             | • Powder                         |                                             |                                    |
| Processing Method | • Rotational Molding             |                                             |                                    |

| Physical                                           | Nominal Value (English) | Nominal Value (SI)      | Test Method     |
|----------------------------------------------------|-------------------------|-------------------------|-----------------|
| Density                                            | 0.934 g/cm <sup>3</sup> | 0.934 g/cm <sup>3</sup> | ASTM D1505      |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)          | 8.0 g/10 min            | 8.0 g/10 min            | ASTM D1238      |
| Mechanical                                         | Nominal Value (English) | Nominal Value (SI)      | Test Method     |
| Tensile Strength (Yield)                           | 2610 psi                | 18.0 MPa                | ASTM D638       |
| Tensile Elongation (Yield)                         | 23 %                    | 23 %                    | ASTM D638       |
| Flexural Modulus                                   | 79800 psi               | 550 MPa                 | ASTM D790       |
| Impact                                             | Nominal Value (English) | Nominal Value (SI)      | Test Method     |
| Drop Impact Resistance <sup>1</sup> (-4°F (-20°C)) | 3.82 in·lb/mil          | 170 J/cm                | Internal Method |
| Hardness                                           | Nominal Value (English) | Nominal Value (SI)      | Test Method     |
| Durometer Hardness (Shore D)                       | 57                      | 57                      | ASTM D2240      |
| Thermal                                            | Nominal Value (English) | Nominal Value (SI)      | Test Method     |
| Melting Temperature (DSC)                          | 257 °F                  | 125 °C                  | ISO 3146        |

## Notes

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

## 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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