

# ICORENE® 1613 AAL

Linear Medium Density Polyethylene  
Rotomolding

## Product Description

ICORENE® 1613 AAL is a hexene linear medium density polyethylene anti algae & anti fungi grade, specifically developed for use in rotational moulding.

Anti algae properties are tested according to SAN BIO 33/99 testmethod. The anti fungi properties are tested according to EN ISO 846.

This grade is suitable for use in general purpose applications, requiring anti algae or anti fungi properties, such as marine applications.

## General

|                   |                                                   |                                      |                                      |
|-------------------|---------------------------------------------------|--------------------------------------|--------------------------------------|
| Material Status   | • Commercial: Active                              |                                      |                                      |
| Availability      | • Europe                                          |                                      |                                      |
| Additive          | • UV Stabilizer                                   |                                      |                                      |
| Features          | • Good Impact Resistance<br>• Good Processability | • Good Stiffness<br>• Good Toughness | • Hexene Comonomer<br>• UV Resistant |
| Uses              | • Marine Applications                             |                                      |                                      |
| Appearance        | • Natural Color                                   | • Unspecified Color                  |                                      |
| Forms             | • Powder                                          |                                      |                                      |
| Processing Method | • Rotational Molding                              |                                      |                                      |

| Physical                                           | Nominal Value (English) | Nominal Value (SI) | Test Method     |
|----------------------------------------------------|-------------------------|--------------------|-----------------|
| Density                                            | 0.938 g/cm³             | 0.938 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      |
| Mechanical                                         | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Tensile Strength (Yield)                           | 2760 psi                | 19.0 MPa           | ISO 527-1       |
| Flexural Modulus                                   | 109000 psi              | 750 MPa            | ISO 178         |
| Impact                                             | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Drop Impact Resistance <sup>1</sup> (-4°F (-20°C)) | 4.50 in·lb/mil          | 200 J/cm           | Internal Method |
| Hardness                                           | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Durometer Hardness (Shore D)                       | 62                      | 62                 | ASTM D2240      |
| Thermal                                            | Nominal Value (English) | Nominal Value (SI) | Test Method     |
| Melting Temperature                                | 261 °F                  | 127 °C             | ISO 11357-3     |

## 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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## ICORENE<sup>®</sup> 1613 AAL

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