

## Technical Data Sheet

**Icorene 1460 GRN 6908**

Medium Density Polyethylene  
LyondellBasell Industries  
Rotomolding

**Product Description**

ICORENE® 1460 GRN 6908 is a hexene medium density polyethylene compound green colour specifically developed for use in rotational moulding.

This grade is designed for use in agriculture and chemical storage containers, technical parts and automotive parts. Also this grade is resistant against the harmful effect of biodiesel fuel.

ICORENE® 1460 GRN 6908 has good overall mouldability, extremely high ESCR and impact strength (especially at low temperatures).

**General**

|                   |                             |                                     |                |
|-------------------|-----------------------------|-------------------------------------|----------------|
| Material Status   | • Commercial: Active        |                                     |                |
| Availability      | • Europe                    |                                     |                |
| Additive          | • Antioxidant               | • UV Stabilizer                     |                |
| Features          | • Good Moldability          | • High ESCR (Stress Crack Resist.)  | • UV Resistant |
|                   | • Good Toughness            | • Low Temperature Impact Resistance |                |
| Uses              | • Automotive Exterior Parts | • Industrial Containers             |                |
| Appearance        | • Green                     |                                     |                |
| Forms             | • Powder                    |                                     |                |
| Processing Method | • Rotational Molding        |                                     |                |

| Physical                                                                         | Nominal Value (English)    | Nominal Value (SI)      | Test Method |
|----------------------------------------------------------------------------------|----------------------------|-------------------------|-------------|
| Density                                                                          | 0.936 g/cm <sup>3</sup>    | 0.936 g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                                        | 7.5 g/10 min               | 7.5 g/10 min            | ISO 1133    |
| Environmental Stress-Cracking Resistance (ESCR)<br>122°F (50°C), 10% Igepal, F50 | > 1000 hr                  | > 1000 hr               | ASTM D1693B |
| Mechanical                                                                       | Nominal Value (English)    | Nominal Value (SI)      | Test Method |
| Tensile Modulus                                                                  | 102000 psi                 | 700 MPa                 | ISO 527     |
| Tensile Strength (Yield)                                                         | 2470 psi                   | 17.0 MPa                | ISO 527-1   |
| Tensile Strain                                                                   |                            |                         | ISO 527-1   |
| Yield                                                                            | 10 %                       | 10 %                    |             |
| Break                                                                            | > 450 %                    | > 450 %                 |             |
| Impact                                                                           | Nominal Value (English)    | Nominal Value (SI)      | Test Method |
| Tensile Impact Strength                                                          |                            |                         | ISO 8256/A  |
| -22°F (-30°C)                                                                    | 49.5 ft·lb/in <sup>2</sup> | 104 kJ/m <sup>2</sup>   |             |
| 73°F (23°C)                                                                      | 101 ft·lb/in <sup>2</sup>  | 213 kJ/m <sup>2</sup>   |             |
| Impact Strength                                                                  |                            |                         | ARM         |
| -40°F (-40°C), 0.118 in (3.00 mm), Rotational Molded                             | > 55 ft·lb                 | > 75 J                  |             |
| Hardness                                                                         | Nominal Value (English)    | Nominal Value (SI)      | Test Method |
| Shore Hardness (Shore D, Rotational Molded)                                      | 56                         | 56                      | ISO 868     |
| Thermal                                                                          | Nominal Value (English)    | Nominal Value (SI)      | Test Method |
| Vicat Softening Temperature                                                      | 235 °F                     | 113 °C                  | ISO 306/A50 |

**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.

**Product Storage and Handling**

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

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**Company Information**

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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