Technical Data Sheet

# *Icorene* 1210 BUE 5748

Linear Low Density Polyethylene

## Product Description

*Icorene* 1210 is a hexene linear low density polyethylene specifically developed for use in rotational moulding.This grade is designed for applications requiring toughness and flexibility and is suitable for use in many applications such as marine buoys, street furniture, or intermediate bulk containers (IBCs).

## Regulatory Status

For regulatory compliance information, see *Icorene* 1210 BUE 5748 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | Europe |
| **Processing Method** | Rotomolding |
| **Attribute** | Good Processability; Good Stiffness; Good Toughness; High Flow; UV Resistant |
| **Forms** | Powder |
| **Appearance** | Natural Color; Unspecified Color |
| **Additive** | UV Stabilizer |
| **Application** | Containers; General Purpose; Industrial Containers |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 3.3 | g/10 min | ASTM D1238 |
| Density | 0.926 | g/cm³ | ASTM D1505 |
| **Mechanical** | | | |
| Tensile Strength at Yield | 14.0 | MPa | ISO 527 |
| Flexural Modulus, (23 °C) | 500 | MPa | ISO 178 |
| Environmental Stress Crack Resistance, (10% Igepal, 50 °C) | >1000 | hr | ASTM D1693 |
| Tensile Elongation at Break | >1300 | % | ASTM D638 |
| **Impact** | | | |
| Drop Impact Resistance, (-20 °C, Internal Method) | >200 | J/cm | ASTM D4226 |
| **Hardness** | | | |
| Shore Hardness, (Shore D) | 52 | | ISO 868 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A (10N)) | 107 | °C | ISO 306 |
| Deflection Temperature Under Load Annealed (0.45 MPa) | 54 | °C | ISO 75-2/B |
| Melting Temperature | 125 | °C | ASTM D2117 |



Manufacturer website: https://www.lyondellbasell.com/en/

## 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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