

## Technical Data Sheet

### *Icorene* N2805-1000 NAT

High Density Polyethylene



#### Product Description

*Icorene* N2805 is a premium HDPE powder with a good balance between the processability and mechanical properties. This grade has high gloss and high dimensional stability and is suitable for use in masterbatch or carpetbacking applications.

#### Regulatory Status

For regulatory compliance information, see *Icorene* N2805-1000 NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Status       | Commercial: Active                                                                   |
| Availability | Europe                                                                               |
| Attribute    | Food Contact Acceptable; Good Dimensional Stability; Good Processability; High Gloss |
| Forms        | Powder                                                                               |
| Application  | Automotive Interior Trim; Carpet Backing; Masterbatch                                |

| Typical Properties               | Nominal Value | Units             | Test Method |
|----------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                  |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg) | 20            | g/10 min          | ASTM D1238  |
| Density                          | 0.954         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                |               |                   |             |
| Tensile Strength at Yield        | 23            | MPa               | ASTM D638   |
| Flexural Modulus                 | 850           | MPa               | ASTM D790   |
| Tensile Elongation at Break      | >100          | %                 | ASTM D638   |
| <b>Hardness</b>                  |               |                   |             |
| Durometer Hardness, (Shore D)    | 65            |                   | ASTM D2240  |
| <b>Thermal</b>                   |               |                   |             |
| Vicat Softening Temperature      | 127           | °C                | ASTM D1525  |
| Peak Melting Temperature         | 133           | °C                | ASTM D3418  |

## 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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