

Technical Data Sheet

# Icorene N2105

Low Density Polyethylene  
 LyondellBasell Industries  
 Custom Powders

**Product Description**

ICORENE® N2105 is a low density polyethylene resin suitable for general purposes. It is characterized by good toughness and flexibility.

This grade is successfully used for compound and masterbatch applications due to its excellent fluidity.

**General**

Features	<ul style="list-style-type: none"> <li>• General Purpose</li> <li>• Good Flexibility</li> </ul>	<ul style="list-style-type: none"> <li>• Good Flow</li> <li>• Good Toughness</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Compounding</li> </ul>	<ul style="list-style-type: none"> <li>• Masterbatch</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>• EU Food Contact</li> </ul>	<ul style="list-style-type: none"> <li>• FDA Food Contact</li> </ul>
Forms	<ul style="list-style-type: none"> <li>• Powder</li> </ul>	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.917 g/cm <sup>3</sup>	0.917 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	21 g/10 min	21 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	1450 psi	10.0 MPa	ASTM D638
Tensile Elongation (Break)	120 %	120 %	ASTM D638
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	44	44	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	180 °F	82.0 °C	ASTM D1525
Peak Melting Temperature	223 °F	106 °C	ASTM D3418

**Notes**

These are typical property values not to be construed as specification limits.