

## Technical Data Sheet

### *Icorene* N2808-1000 NAT

High Density Polyethylene

#### Product Description

*Icorene* N2808 is a gas phase homopolymer HDPE and offers high stiffness, high temperature resistance (antioxidant stabilizers), low water vapour transmission and relatively high grease resistance. This grade has a low gel level. Its typically used for masterbatch applications related to food packaging, release paper and photographic paper.

Attribute	Good Processability; Good Stability; High Heat Resistance; High Stiffness; Low Gel
Forms	Powder
Application	Automotive Interior Trim; Carpet Backing; Food Packaging; Masterbatch

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	8.0	g/10 min	ASTM D1238
Density	0.963	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield MD	26.0	MPa	ISO 527-3
Tensile Strength at Yield TD	24.0	MPa	ISO 527-3
Tensile Strength at Break MD	22.0	MPa	ISO 527-3
Tensile Strength at Break TD	18.0	MPa	ISO 527-3
Flexural Modulus MD	580	MPa	ISO 527-3
Flexural Modulus TD	580	MPa	ISO 527-3
Tensile Elongation at Break MD	700	%	ISO 527-3
Tensile Elongation at Break TD	800	%	ISO 527-3
<b>Film</b>			
Water Vapor Transmission Rate, (Internal Method)	4.0	g/m <sup>2</sup> /24 hr	ASTM E96
Oxygen Permeability, (23 °C, Internal Method)	0.10	cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr	ASTM D3985
<b>Thermal</b>			
Peak Melting Temperature, (DIN 53765)	134	°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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