

Technical Data Sheet

**Icorene N1003**

Ethylene Vinyl Acetate Copolymer
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N1003 is a premium copolymer of ethylene vinyl acetate specifically designed for the preparation of masterbatch. The powder form can achieve better colour developments or additive dispersion in a masterbatch than the pellet form.

The vinyl acetate content is about 18 %.

ICORENE® N1003 can be used in various applications such as in hot melt adhesives where the maximum processing temperature is 240°C.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Heat Stabilizer		
Features	• Copolymer • Dispersible	• Food Contact Acceptable • Good Colorability	• Heat Stabilized
Uses	• Adhesives	• Masterbatch	
Forms	• Powder		
Processing Method	• Compounding Extrusion		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.940 g/cm ³	0.940 g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7 g/10 min	1.7 g/10 min	ASTM D1238
Vinyl Acetate Content	18.0 wt%	18.0 wt%	Internal Method
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	7250 psi	50.0 MPa	ASTM D638
Tensile Elongation (Break)	> 100 %	> 100 %	ASTM D638
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A)	89	89	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	144 °F	62.0 °C	ASTM D1525
Melting Temperature	187 °F	86.0 °C	Internal Method

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Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	< 464 °F	< 240 °C

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

Company Information

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

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