

Technical Data Sheet

**Icorene N9903**

Polymethyl Methacrylate Acrylic
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N9903 is a Polymethyl Methacrylate Acrylic (PMMA) material.

This grade is used for masterbatch applications

General

Material Status	• Commercial: Active
Availability	• Europe
Uses	• Masterbatch
Forms	• Powder

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.18 g/cm ³	1.18 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	15 g/10 min	15 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Break)	9430 psi	65.0 MPa	ISO 527-2
Tensile Strain (Break)	5.0 %	5.0 %	ISO 527-2
Flexural Modulus	450000 psi	3100 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 179/2C
Notched Izod Impact Strength	0.86 ft·lb/in ²	1.8 kJ/m ²	ISO 180/1A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	89	89	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	180 °F	82.0 °C	ISO 75-2/B
Vicat Softening Temperature	194 °F	90.0 °C	ISO 306/B
Melting Temperature (DSC)	392 °F	200 °C	Internal Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance	92.0 %	92.0 %	ASTM D1003
Haze	0.500 %	0.500 %	ASTM D1003
Thermoset	Nominal Value (English)	Nominal Value (SI)	
Dry Time (176°F (80°C))	4.0 hr	4.0 hr	

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/>.

© LyondellBasell Industries Holdings, B.V. 2024

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification,

Page: 1 of 2
LyondellBasell

www.lyondellbasell.com
Publish Date: 2024-03-14

Technical Data Sheet**Icorene N9903**

Polymethyl Methacrylate Acrylic
LyondellBasell Industries
Custom Powders

either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.