

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

Uses	• Masterbatch	
Agency Ratings	• EU Food Contact	• FDA Food Contact
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.