

Technical Data

Product Description

Advanced-PP 1100 N is a medium flow propylene homopolymer for general injection molding applications.

Application:
 Closures, Furniture, Housewares, General injection molding.

Regulatory Information:
 The grade Advanced-PP 1100N and additives incorporated comply with United States FDA Regulation 21CFR 177.1520 Olefin Polymers and European Regulation (EU) 10/2011 (and its amendments). Specific information is available upon request.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Africa & Middle East • Asia Pacific
Features	• Homopolymer • Medium Flow
Uses	• Closures • General Purpose • Furniture • Household Goods
Agency Ratings	• EU 10/2011 • FDA 21 CFR 177.1520
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.910 g/cm ³	0.910 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	225000 psi	1550 MPa	ISO 527-2/1
Tensile Stress (Yield)	5080 psi	35.0 MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0 %	8.0 %	
Break	> 50 %	> 50 %	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.4 ft·lb/in ²	3.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	52 ft·lb/in ²	110 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (73°F (23°C))	1.4 ft·lb/in ²	3.0 kJ/m ²	ISO 180/1A

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	11300 psi	78.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	185 °F	85.0 °C	ISO 75-2/B
Vicat Softening Temperature	309 °F	154 °C	ISO 306/A50
Melting Temperature (DSC)	325 °F	163 °C	ISO 3146

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

