

Technical Data Sheet



Network Polymers Pp NPP 20-1202M

Polypropylene Random Copolymer

LyondellBasell Industries

Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• No Animal Derived Components • Radiation (Gamma) Resistant		
Uses	• Medical/Healthcare Applications		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.900	0.898 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	3800 psi	26.2 MPa	ASTM D638
Tensile Elongation ² (Yield)	13 %	13 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	107000 psi	738 MPa	
Tangent	115000 psi	793 MPa	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 in (3.18 mm))	0.75 ft·lb/in	40 J/m	ASTM D256A
Gardner Impact	230 in·lb	26.0 J	ASTM D5420

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	83	83	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	167 °F	75.0 °C	ASTM D648

Notes

¹ Procedure A

² 2.0 in/min (51 mm/min)

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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Page: 1 of 2
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