

Technical Data Sheet

Network Polymers Pp NPP 20-1202M

Polypropylene Random Copolymer
 LyondellBasell Industries
 Engineering Plastics

General	
Features	• No Animal Derived Components • Radiation (Gamma) Resistant
Uses	• Medical/Healthcare Applications
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a
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.