

# Network Polymers PP NPP 20-1202M

Polypropylene Random Copolymer

Network Polymers, Inc.

## Message:

Network Polymers PP NPP 20-1202M is a Polypropylene Random Copolymer (PP Random Copolymer) product. It can be processed by injection molding and is available in North America. Applications of Network Polymers PP NPP 20-1202M include food contact applications and medical/healthcare. Primary characteristic: radiation (gamma) resistant.

General Information			
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	Unit	Test Method
Specific Gravity	0.898	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	26.2	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Yield)	13	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	738	MPa	
Tangent	793	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	40	J/m	ASTM D256A
Gardner Impact	26.0	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
NOTE			
1.	Procedure A		
2.	51 mm/min		
3.	51 mm/min		

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