



# INEOS PP N20G-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Sunday, September 15, 2019

## General Information

### Product Description

N20G-00 is a high melt flow rate impact copolymer polypropylene for injection molding applications. It offers very high impact resistance and good stiffness. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

### General

Material Status	• Commercial: Active
Availability	• North America
Features	• Food Contact Acceptable • Good Stiffness • High Flow • High Impact Resistance • Impact Copolymer
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.894	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, Injection Molded)	21.0	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break, Injection Molded)	16.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	7.9	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Injection Molded)	> 300	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	911	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	91	J/m	
23°C, Injection Molded	No Break		
Notched Izod Impact (Area)			ASTM D256
-20°C, Injection Molded	8.80	kJ/m <sup>2</sup>	
23°C, Injection Molded	No Break		
Instrumented Dart Impact			ASTM D3763
-20°C, Injection Molded, Brittle Failure	No Break		
23°C, Injection Molded, Ductile Failure	No Break		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	67		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Injection Molded	82.1	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, Injection Molded	48.6	°C	
Vicat Softening Temperature	143	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	83		ASTM D2457

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 51 mm/min

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