



INEOS PP N20G-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 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 • High Flow • Good Stiffness • 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 Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.896		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	3050	psi	ASTM D638
Tensile Strength ² (Break, Injection Molded)	2350	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	7.9	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	> 300	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	132000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F, Injection Molded	1.7	ft-lb/in	
73°F, Injection Molded	No Break		
Notched Izod Impact (Area)			ASTM D256
-4°F, Injection Molded	4.19	ft-lb/in ²	
73°F, Injection Molded	No Break		
Instrumented Dart Impact			ASTM D3763
-4°F, Injection Molded, Brittle Failure	No Break		
73°F, 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
66 psi, Unannealed, Injection Molded	180	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Injection Molded	119	°F	
Vicat Softening Temperature	289	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	83		ASTM D2457

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min
