

INEOS PP N20G-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

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 Information			
UL YellowCard	E31830-230772		
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.894	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	62		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	21.1	MPa	
Break	16.2	MPa	
Tensile Elongation ²			ASTM D638
Yield	7.9	%	
Break	330	%	
Flexural Modulus - 1% Secant	912	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	91	J/m	
23°C	560	J/m	
Notched Izod Impact (Area)			ASTM D256
-20°C	8.80	kJ/m ²	

23°C	54.5	kJ/m ²	
Instrumented Impact, Ductility (23°C)	Ductile	ASTM D3763	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	82.1	°C	
1.8 MPa, Unannealed	48.6	°C	
Vicat Softening Temperature	143	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss (60°)	83		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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