

INEOS PP N12N-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

N12N-00 is a medium melt flow rate, nucleated polypropylene impact copolymer designed for injection molding and compounding applications. The grade benefits from a high stiffness and high impact resistance at both room and low temperatures. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information	
Additive	Nucleating Agent
Features	Food Contact Acceptable
	High Impact Resistance
	High Stiffness
	Impact Copolymer
	Low Temperature Impact Resistance
	Medium Flow
	Nucleated
Uses	Compounding
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1520
RoHS Compliance	Contact Manufacturer
Forms	Pellets
Processing Method	Compounding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.897	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	23.4	MPa	
Break	17.7	MPa	
Tensile Elongation ²			ASTM D638
Yield	7.1	%	
Break	320	%	
Flexural Modulus - 1% Secant	1050	MPa	ASTM D790A

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-20°C)	80	J/m	ASTM D256
Notched Izod Impact (Area)			ASTM D256
-20°C	8.10	kJ/m ²	
23°C	No Break		
Instrumented Impact, Ductility			ASTM D3763
-20°C	Ductile		
23°C	Ductile		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	93.3	°C	
1.8 MPa, Unannealed	52.8	°C	
Vicat Softening Temperature	143	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss (60°)	64		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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