

INEOS PP N01N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Friday, September 20, 2019

General Information

Product Description

N01N-00 is a high stiffness, impact copolymer specially designed for freezer-to-microwave performance. This extrusion grade resin exhibits an excellent balance of impact and stiffness properties, and combines high heat resistance with good gloss and thermoformability. 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 Stiffness • High Heat Resistance • Impact Copolymer • Medium Gloss
Uses	• Thermoforming Applications
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Extrusion • Thermoforming

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.906	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	30.1	MPa	ASTM D638
Tensile Strength ² (Break, Injection Molded)	15.2	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	6.5	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	150	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	1620	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-20°C, Injection Molded)	53	J/m	ASTM D256
Notched Izod Impact (Area)			ASTM D256
-20°C, Injection Molded	5.30	kJ/m ²	
23°C, Injection Molded	No Break		
Instrumented Impact, Ductility			ASTM D3763
-20°C	Ductile		
23°C	Ductile		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	95		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Injection Molded	111	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, Injection Molded	60.6	°C	
Vicat Softening Temperature	154	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	75		ASTM D2457

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Notes

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

² 51 mm/min
