

INEOS PP N02J-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

N02J-00 is a low melt flow rate, high impact copolymer polypropylene for sheet extrusion and thick wall injection molding applications. It offers a superior balance of stiffness and impact strength for thermoformed articles where freezer to microwave performance is required. Typical applications include appliances, compounding, consumer products, housewares, and rigid packaging. Benefits include enhanced room temperature and low temperature impact and enhanced stiffness. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information			
Features	Food Contact Acceptable		
	High Impact Resistance		
	Impact Copolymer		
	Low Flow		
Uses	Appliances		
	Compounding		
	Consumer Applications		
	Household Goods		
	Rigid Packaging		
	Sheet		
	Thermoforming Applications		
	Thick-walled Parts		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	28.9	MPa	

Break	17.1	MPa	
Tensile Elongation ²			ASTM D638
Yield	5.4	%	
Break	160	%	
Flexural Modulus - 1% Secant	1580	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	75	J/m	
23°C	680	J/m	
Notched Izod Impact (Area)			ASTM D256
-20°C	7.10	kJ/m ²	
23°C	67.5	kJ/m ²	
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	116	°C	
1.8 MPa, Unannealed	61.1	°C	
Vicat Softening Temperature	153	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss (60°)	59		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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