



INEOS PP N02J-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
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
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding • Sheet Extrusion • Thermoforming

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	4190	psi	ASTM D638
Tensile Strength ² (Break, Injection Molded)	2480	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	5.4	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	160	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	229000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F, Injection Molded	1.4	ft-lb/in	
73°F, Injection Molded	No Break		
Notched Izod Impact (Area) (-4°F, Injection Molded)	3.38	ft-lb/in ²	ASTM D256
Instrumented Dart Impact			ASTM D3763
-4°F, Injection Molded, Ductile Failure	No Break		
73°F, Injection Molded, Ductile Failure	No Break		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	90		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	241	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Injection Molded	142	°F	

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	307	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	59		ASTM D2457

Notes

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

² 2.0 in/min