

# N02J-00 Polypropylene Impact Copolymer

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.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.900 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	—	1.9 g/10 min	D1238
<b>Injection Molded Sample</b>			
Tensile Strength (2 in/min)			D638
@ Yield	4,190 psi	28.7 MPa	
@ Break	2,477 psi	17.1 MPa	
Elongation (2 in/min)			D638
@ Yield	—	5.4 %	
@ Break	—	162 %	
Flexural Modulus			D790A
1% Secant	229,250 psi	1,580 MPa	
Notched Izod Impact Strength			D256
@ 23 C	—	No Break	
@ -20 C	1.4 ft-lb <sub>f</sub> /in	7.1 kJ/m <sup>2</sup>	
<b>Hardness</b>			
Rockwell R	—	90	D785
Vicat Softening Point	307 F	153 C	D1525
<b>Deflection Temperature</b>			
@ 66 psi (455 kPa)	241 F	116 C	D648
@ 264 psi (1,820 kPa)	142 F	60 C	
Gloss at 60° angle	—	59 GU	D2457
<b>Instrumented Impact</b>			
@ 23 C	—	Ductile	D3763
@ -20 C	—	Ductile	

<sup>1</sup> Typical properties will vary and are not to be used for specifications.