

N02G-00 Polypropylene Impact Copolymer

N02G-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 as compared to competitive impact copolymers of similar melt flow rate range. Typical applications include appliances, automotive, compounding, consumer products, housewares, and rigid packaging. Benefits include enhanced impact and stiffness. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.900 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	—	2.5 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	3,697 psi	25.5 MPa	
@ Break	2,600 psi	17.9 MPa	
Elongation (2 in/min)			D638
@ Yield	—	6.7 %	
@ Break	—	321 %	
Flexural Modulus			D790A
1% Secant	172,750 psi	1,207 MPa	
Notched Izod Impact Strength			D256
@ 23 C	-	No Break	
@ -20 C	1.6 ft-lb _f /in	8.2 kJ/m ²	
Hardness			
Rockwell R	—	86	D785
Vicat Softening Point	304 °F	151 °C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	202 °F	94 °C	
@ 264 psi (1,820 kPa)	126 °F	52 °C	
Gloss at 60° angle	—	69	D2457
Instrumented Impact			D3763
@ 23 C	—	Ductile	
@ -20 C	—	Ductile	

¹ Typical properties will vary and are not to be used for specifications.

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