N12N-00 Polypropylene Impact Copolymer

N12N-00 is a medium melt flow rate, nucleated polypropylene impact copolymer designed for injection molding and compounding applications. The grade benefits from a high stiffness and high impact resistance at both room and low temperatures. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	—	0.897 g/cc	**D792**
Melt Flow Rate, 230°C/2.16 kg	—	12 g/10 min	**D1238**
Injection Molded Sample			
Tensile Strength (2 in/min)			**D638**
@ Yield	3,400 psi	23.0 MPa	
@ Break	2,570 psi	17.7 MPa	
Elongation (2 in/min)			**D638**
@ Yield	—	7.1 %	
@ Break	—	315%	
Flexural Modulus			**D790A**
1% Secant	153,000 psi	1,064 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	—	No Break	
@ -20 C	1.5 ft-lb_f/in	8.1 kJ/m^2	
Hardness			
Rockwell R	—	70	**D785**
Vicat Softening Point	289 F	143 C	**D1525**
Deflection Temperature			**D648**
@ 66 psi (455 kPa)	200 F	94 C	
@ 264 psi (1,820 kPa)	127 F	52 C	
Gloss at 60° angle	—	64	**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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