

N05G-00 Polypropylene Impact Copolymer

N05G-00 is a general purpose, polypropylene impact copolymer designed for injection molding and compounding applications. The grade benefits from a superior balance of stiffness and impact strength as compared to competitive impact copolymers of similar melt flow rate. This material has been recognized by UL for sustained use at 65°C and 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	—	0.902 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	—	5.0 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in./min)			D638
@ Yield	3,460 psi	24.0 MPa	
@ Break	2,045 psi	14.0 MPa	
Elongation (2 in./min)			D638
@ Yield	—	6.6 %	
@ Break	—	275 %	
Flexural Modulus			D790A
1% Secant	179,000 psi	1,235 MPa	
Notched Izod Impact Strength			D256
@ 23 C	—	No Break	
@ -20 C	1.5 ft-lb _f /in	7.8 kJ/m ²	
Hardness			
Rockwell R	—	79	D785
Vicat Softening Point	300 F	149 °C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	203 F	95 C	
@ 264 psi (1,820 kPa)	120 F	49 C	
Gloss at 60° angle	—	60	D2457
Instrumented Impact			D3763
@ 23 C	—	Ductile	
@ -20 C	—	Ductile	
UL Recognition (1.5 mm thickness)			UL94
Relative Temperature Index	149 F	65 C	
Flammability Classification	—	HB	

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