

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.

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The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

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The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.ineos-op.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

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