



N05U-00 Polypropylene Impact Copolymer

N05U-00 is an extrusion-grade nucleated impact copolymer polypropylene resin designed for fiber optic buffer tube applications in the protection of glass fibers. N05U-00 has an excellent impact/stiffness property balance and provides the high compression strength required to meet the Bellcore GR-20-CORE standard (Generic Requirements for Optical Fiber and Fiber Optic Cable).

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.907 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	—	5 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	3,900 psi	26.9 MPa	
@ Break	2,785 psi	19.2 MPa	
Elongation (2 in/min)			D638
@ Yield	5.23 %	5.23 %	
@ Break	132 %	132 %	
Flexural Modulus			D790A
1% Secant	216,100 psi	1,490 MPa	
Notched Izod Impact Strength			D256
@ 23 C	7.4 ft-lbf/in	38.7 kJ/m²	
@ - 20 C	1.2 ft-lbf/in	6.2 kJ/m²	
Hardness			D785
Rockwell R	89	89	
Vicat Softening Point	304 F	151 C	D1525
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	223 F	106 C	
@ 264 psi (1,820 kPa)	135 F	57 C	
Gloss Units, 60° angle		64 %	D2457
Instrumented Impact			D3763
@ 23 C	Ductile	Ductile	
@ -20 C	Ductile	Ductile	

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

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Regulatory Information

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 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.

For additional information, samples, pricing and availability, please contact:

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