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 Properties[1]

	Values		ASTM
	English Units	SI Units	Method
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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2600 South Shore Boulevard, Ste. 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS Olefins & Polymers USA

Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

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

INEOS Olefins & Polymers, USA
Marina View Building
2600 South Shore Boulevard
Suite 500
League City, Texas 77573
Phone: +1 281 535 6600
Fax: +1 281 535 6764
Customer Service: +1 800 527 5419
Tech Service: +1 800 338 0489
www.ineos-op.com

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