

INEOS PP N05U-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

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).

General Information			
Additive	Nucleating Agent		
Features	Good Compressive Strength		
	Impact Copolymer		
	Nucleated		
Uses	Tubing		
Agency Ratings	BELLCORE GR-20-CORE		
	EC 1907/2006 (REACH)		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.907	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	26.9	MPa	
Break	19.2	MPa	
Tensile Elongation ²			ASTM D638
Yield	5.2	%	
Break	130	%	
Flexural Modulus - 1% Secant	1490	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	64	J/m	
23°C	400	J/m	
Notched Izod Impact (Area)			ASTM D256
-20°C	6.20	kJ/m ²	

23°C	38.7	kJ/m²	
Instrumented Impact, Ductility		ASTM D3763	
-20°C	Ductile		
23°C	Ductile		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load		ASTM D648	
0.45 MPa, Unannealed	106	°C	
1.8 MPa, Unannealed	57.2	°C	
Vicat Softening Temperature	151	°C	ASTM D1525
Optical	Nominal Value	Test Method	
Gloss (60°)	64	ASTM D2457	
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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