



INEOS PP N05U-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.909		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	3900	psi	ASTM D638
Tensile Strength ² (Break)	2790	psi	ASTM D638
Tensile Elongation ² (Yield)	5.2	%	ASTM D638
Tensile Elongation ² (Break)	130	%	ASTM D638
Flexural Modulus - 1% Secant	216000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F	1.2	ft-lb/in	
73°F	7.4	ft-lb/in	
Notched Izod Impact (Area)			ASTM D256
-4°F	2.95	ft-lb/in ²	
73°F	18.4	ft-lb/in ²	
Instrumented Impact, Ductility			ASTM D3763
-4°F	Ductile		
73°F	Ductile		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	89		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	223	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	135	°F	
Vicat Softening Temperature	304	°F	ASTM D1525

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Optical	Nominal Value	Unit	Test Method
Gloss (60°)	64		ASTM D2457

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min