INEOS PP N12N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

N12N-00 is a medium melt flow rate, nucleated polypropylene impact copolymer designed for injection molding and compounding applications. The grade benefits from a high stiffness and high impact resistance at both room and low temperatures. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Nucleating Agent		
Features	• Food Contact Acceptable • High Impact Resistance • High Stiffness	• Impact Copolymer • Low Temperature Impact Resistance • Medium Flow	• Nucleated
Uses	• Compounding		
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Compounding	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.899		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	3400	psi	ASTM D638
Tensile Strength [2] (Break)	2570	psi	ASTM D638
Tensile Elongation [2] (Yield)	7.1	%	ASTM D638
Tensile Elongation [2] (Break)	320	%	ASTM D638
Flexural Modulus - 1% Secant	153000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (-4°F)	1.5	ft·lb/in	ASTM D256
Notched Izod Impact (Area)			ASTM D256
-4°F	3.85	ft·lb/in²	
73°F	No Break		
Instrumented Impact, Ductility			ASTM D3763
-4°F	Ductile		
73°F	Ductile		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	70		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	200	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	127	°F	
Vicat Softening Temperature	289	°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