INEOS PP N20N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Friday, September 20, 2019

General Information

Product Description

N20N-00 is a high impact vis-broken high melt flow rate nucleated polypropylene impact copolymer designed for injection molding applications such as crates for food transport and storage, pails, small containers, and other material-handling products. The grade contains both an antistat and a slip agent and 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	• Antistatic	• Nucleating Agent	• Slip
Features	• Antistatic • Food Contact Acceptable • High Flow	• High Impact Resistance • Impact Copolymer • Nucleated	• Slip
Uses	• Containers	• Crates	• Pails
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.903	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	22.6	MPa	ASTM D638
Tensile Strength [2] (Break)	16.5	MPa	ASTM D638
Tensile Elongation [2] (Yield)	5.0	%	ASTM D638
Tensile Elongation [2] (Break)	50	%	ASTM D638
Flexural Modulus - 1% Secant	1230	MPa	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (-20°C)	96	J/m	ASTM D256
Notched Izod Impact (Area)			ASTM D256
-20°C	9.30	kJ/m²	
23°C	No Break		
Instrumented Impact, Ductility			ASTM D3763
-20°C	Ductile		
23°C	Ductile		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	74		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	98.9	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	50.0	°C	
Vicat Softening Temperature	145	°C	ASTM D1525

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Optical	Nominal Value	Unit	Test Method
Gloss (60°)	43		ASTM D2457

Notes

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

[2] 51 mm/min