



HYPRO® PP-HP 20NS

Entec Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

This product is intended for general purpose injection molding applications such as cutlery, caps & closures, and thin wall containers.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antistatic • Nucleating Agent
Features	• Antistatic • Homopolymer • General Purpose • Nucleated
Uses	• Caps • Consumer Applications • Thin-walled Containers • Closures • General Purpose
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4E-4	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	5660	psi	ASTM D638
Tensile Elongation (Yield, 73°F)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant ² (73°F)	280000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.60	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	268	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 420	°F
Middle Temperature	380 to 460	°F
Front Temperature	400 to 480	°F
Nozzle Temperature	380 to 460	°F
Processing (Melt) Temp	400 to 480	°F
Mold Temperature	70 to 120	°F
Injection Pressure	500 to 1500	psi

Notes

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

² 0.051 in/min