



INEOS PP H12Z-00

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

H12Z-00 is a nucleated and antistatic polypropylene homopolymer designed for injection molding applications such as caps and closures, consumer products, furniture, housewares, and rigid packaging. The grade benefits from fast cycle times, high stiffness, and low static charge. This material has been recognized by UL as flame class HB 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
Features	• Antistatic • Food Contact Acceptable • Homopolymer • Fast Molding Cycle • High Stiffness • Nucleated
Uses	• Caps • Consumer Applications • Household Goods • Closures • Furniture • Rigid Packaging
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	0.914		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)	5430	psi	ASTM D638
Tensile Strength ² (Break)	2610	psi	ASTM D638
Tensile Elongation ² (Yield)	8.6	%	ASTM D638
Tensile Elongation ² (Break)	78	%	ASTM D638
Flexural Modulus - 1% Secant	266000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.70	ft-lb/in	ASTM D256
Notched Izod Impact (Area) (73°F)	1.81	ft-lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	248	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	92		ASTM D2457
Haze ³ (50.0 mil)	55.0	%	ASTM D1003

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Notes

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

² 2.0 in/min

³ 23°C