

INEOS PP H12Z-00

Polypropylene Homopolymer
INEOS Olefins & Polymers USA

Message:

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 Information			
UL YellowCard	E31830-100062239		
Additive	Antistatic Nucleating Agent		
Features	Antistatic Fast Molding Cycle Food Contact Acceptable High Stiffness Homopolymer Nucleated		
Uses	Caps Closures Consumer Applications Furniture Household Goods Rigid Packaging		
Agency Ratings	EC 1907/2006 (REACH) FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.912	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638

Yield	37.4	MPa	
Break	18.0	MPa	
Tensile Elongation ²			ASTM D638
Yield	8.6	%	
Break	78	%	
Flexural Modulus - 1% Secant	1830	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	3.80	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	120	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	92		ASTM D2457
Haze ³ (1270 μm)	55	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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