

# INEOS PP H12Z-03

Polypropylene Homopolymer  
INEOS Olefins & Polymers USA

Message:

H12Z-03 is a nucleated homopolymer polypropylene that also contains an antistat and a lubricant to provide optimal balance between processing and surface appearance. It is designed for general purpose injection molding. Typical applications include consumer products and rigid packaging. It meets the requirements of the U.S. Food and Drug Administration as specified in 21CFR 177.1520.

General Information			
Additive	Antistatic		
	Lubricant		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	General Purpose		
	Homopolymer		
	Lubricated		
	Nucleated		
Uses	Consumer Applications		
	General Purpose		
	Rigid Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.913	g/cm <sup>3</sup>	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)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	37.9	MPa	
Break	17.9	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	8.2	%	

Break	71	%	
Flexural Modulus - 1% Secant	1900	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	38	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	3.79	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	118	°C	ASTM D648
Optical	Nominal Value		Test Method
Gloss (60°)	91		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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