

# INEOS PP H53N-00

Polypropylene Homopolymer  
INEOS Olefins & Polymers USA

Message:

H53N-00 is a high flow rate nucleated and lightly lubricated homopolymer polypropylene designed for high-speed injection molding of thin-walled parts requiring good stiffness and fast cycle times. Typical applications are: media packaging, consumer products, housewares, and thin-wall rigid packaging and food service items. This grade meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information			
Additive	Lubricant		
	Nucleating Agent		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Stiffness		
	High Flow		
	Homopolymer		
	Lubricated		
	Nucleated		
Uses	Consumer Applications		
	Food Service Applications		
	Household Goods		
	Media Packaging		
	Rigid Packaging		
	Thin-walled Packaging		
	Thin-walled Parts		
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	0.914	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	53	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638

Yield	38.0	MPa	
Break	27.5	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	8.5	%	
Break	19	%	
Flexural Modulus - 1% Secant	1790	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	2.61	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	114	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	92		ASTM D2457
Haze <sup>3</sup> (1270 μm)	54	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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