

H53N-00 Polypropylene Homopolymer

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.

Typical Properties¹

English Units	Values		ASTM
	SI Units	Method	
Resin			
Density	—	0.914 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	53 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	5,517 psi	38.1 MPa	
@ Break	3,993 psi	27.5 MPa	
Elongation (2 in/min)			D638
@ Yield	8.5 %	8.5 %	
@ Break	19.3 %	19.3 %	
Flexural Modulus			D790A
1% Secant	259,000 psi	1,740 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.50 ft-lbf/in	2.61 kJ/m ²	
Hardness			D785
Rockwell R	107	107	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	237 F	114 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	54 %	54 %	
Gloss at 60 ° angle	92	92	D2457
Shrinkage at 23°C, in/in	MD: 1.53%		D955
	TD: 1.71%		

¹ Typical properties will vary and are not to be used for specifications.

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

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The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.ineos-op.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

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