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 Properties[1]

	Values		ASTM
English Units	**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/m²	
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% TD: 1.71%		**D955**

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

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Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

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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.

Health and Safety Information

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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