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

H05H-01 Polypropylene Homopolymer

Grade H05H-01 is a homopolymer polypropylene designed for use in injection molding applications requiring high temperature resistance. H05H-01 has excellent long-term heat aging stability and superior extraction resistance in hot aqueous solutions, making it an excellent candidate for use in washing machines, dishwashers, coffee makers, other appliances, and automotive applications. This grade has been recognized by UL for sustained use at 130 C, meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 and is Drug Master File listed. This product is not recommended for taste or odor sensitive applications.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	—	0.911 g/cc	**D792**
Melt Flow Rate 230°C/2.16 kg	—	5.1 g/10 min	**D1238**
Injection Molded Samples			
Tensile Strength (2 in/min)			**D638**
@ Yield	5,350 psi	36.9 MPa	
@ Break	2,600 psi	17.9 MPa	
Elongation (2 in/min)			**D638**
@ Yield	—	9.2 %	
@ Break	—	142 %	
Flexural Modulus			**D790A**
1% Secant	249,000 psi	1,710 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	0.76 ft-lbf/in	4.0 kJ/m²	
Hardness			**D785**
Rockwell R	—	103	
Deflection Temperature			**D648**
@ 66 psi (455 kPa)	220 F	104 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			**D1003**
% Diffuse Transmittance	—	73%	
Gloss at 60° angle	—	93	**D2457**
UL Recognition (3.0 mm thickness)			**UL94**
Relative Temperature Index	266 F	130 C	
Flammability Classification	—	HB	

[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.

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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