

## Ineos H05H-01 Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Grade H05H-01 is a homopolymer polypropylene for injection molding applications. It is an excellent long-term heat aging grade and offers superior extraction resistance in hot aqueous solutions. This makes it an excellent candidate for use in washing machines, dishwashers, and coffee makers. This material has been recognized by UL for sustained use at 130c and meets the requirements of the Food and Drug Administration as specified in 21 CFR 177.1520 and is Drug Master file listed. Suggested fabrication methods: Injection molding Features: Heat resistance, Long-term heat aging Typical applications: Appliances, Compounding Complies with FDA specification, Title 21, CFR 177.1520. Typical property data below from injection molded samples.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-H05H-01-Polypropylene-Homopolymer.php](http://www.lookpolymers.com/polymer_ineos-H05H-01-Polypropylene-Homopolymer.php)

Physical Properties	Metric	English	Comments
Density	0.886 - 0.926 g/cc	0.0320 - 0.0335 lb/in <sup>3</sup>	ASTM D1505
Water Absorption	<= 0.010 %	<= 0.010 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.010 - 0.025 cm/cm	0.010 - 0.025 in/in	ASTM D955
Melt Flow	5.7 g/10 min @Load 2.16 kg, Temperature 230 °C	5.7 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	79 - 108	79 - 108	Normal range for injection molding resins; ASTM D785
Tensile Strength, Yield	36.0 MPa	5220 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790A
Izod Impact, Notched	0.200 - 0.300 J/cm @Diameter 3.17 mm	0.375 - 0.562 ft-lb/in @Diameter 0.125 in	bar; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	UL Relative Thermal Index
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	ASTM D648
Flammability, UL94	HB	HB	

Thermal Properties Descriptive Properties	Metric Value	English Comments	Comments
Process	Injection Molding		
Region	Mexico		Bamberger Polymers Distribution
	US & Canada		Bamberger Polymers Distribution

## Contact Songhan Plastic Technology Co.,Ltd.

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