

## Ineos H05M-00 Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Grade H05M-00 is a general purpose polypropylene homopolymer for injection molding applications. This resin provides good long-term heat stability. This material meets the requirements of the Food and Drug Administration as specified in CFR 21 177.1520. Suggested fabrication methods: Injection molding  
 Features: 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-H05M-00-Polypropylene-Homopolymer.php](http://www.lookpolymers.com/polymer_ineos-H05M-00-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	5.2 g/10 min @Load 2.16 kg, Temperature 230 Â°C	5.2 g/10 min @Load 4.76 lb, Temperature 446 Â°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	100 Â°C	212 Â°F	UL Relative Thermal Index
Deflection Temperature at 0.46 MPa (66 psi)	104 Â°C	219 Â°F	ASTM D648
Flammability, UL94	HB	HB	

Descriptive Properties	Value	Comments
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Descriptive Properties

Value on Molding

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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