

# INEOS PP H05H-01

Polypropylene Homopolymer  
INEOS Olefins & Polymers USA

Message:

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.

General Information			
UL YellowCard	E31830-101084873		
Features	Food Contact Acceptable		
	Good Heat Aging Resistance		
	High Heat Resistance		
	Homopolymer		
Uses	Appliances		
	Automotive Applications		
Agency Ratings	DMF Unspecified Rating		
	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.911	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.1	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	36.9	MPa	
Break	17.9	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	9.2	%	
Break	140	%	
Flexural Modulus - 1% Secant	1720	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	41	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	4.00	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	104	°C	ASTM D648
RTI Elec (3.00 mm)	130	°C	UL 746
RTI Imp (3.00 mm)	130	°C	UL 746
RTI Str (3.00 mm)	130	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	93		ASTM D2457
Haze <sup>3</sup> (1270 μm)	73	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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#### Recommended distributors for this material

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