

# INEOS PP H13M-00

Polypropylene Homopolymer

INEOS Olefins & Polymers USA

## Message:

H13M-00 is a medium-term heat aging polypropylene homopolymer designed for injection molding applications such as automotive parts, appliances and medical and rigid packaging. This grade benefits from a good retention of physical properties when exposed to higher in-service temperatures over an extended period of time, even following hot-water extraction. This material has been recognized by UL for sustained use at 100°C and meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information			
UL YellowCard	E31830-230773		
Features	Food Contact Acceptable Homopolymer		
Uses	Appliances Automotive Applications Medical Packaging Rigid Packaging		
Agency Ratings	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)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	37.0	MPa	
Break	17.1	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	9.1	%	
Break	140	%	
Flexural Modulus - 1% Secant	1650	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256

Notched Izod Impact (Area) (23°C)	3.10	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	105	°C	ASTM D648
RTI Elec (6.00 mm)	100	°C	UL 746
RTI Imp (6.00 mm)	100	°C	UL 746
RTI Str (6.00 mm)	100	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (6.00 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	92		ASTM D2457
Haze <sup>3</sup> (1270 μm)	76	%	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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