



INEOS PP H13M-00

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Features	• Food Contact Acceptable • Homopolymer
Uses	• Appliances • Medical Packaging • Automotive Applications • Rigid Packaging
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.913		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	14	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	5360	psi	ASTM D638
Tensile Strength ² (Break)	2480	psi	ASTM D638
Tensile Elongation ² (Yield)	9.1	%	ASTM D638
Tensile Elongation ² (Break)	140	%	ASTM D638
Flexural Modulus - 1% Secant	240000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.60	ft-lb/in	ASTM D256
Notched Izod Impact (Area) (73°F)	1.48	ft-lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	221	°F	ASTM D648
RTI Elec (0.24 in)	212	°F	UL 746
RTI Imp (0.24 in)	212	°F	UL 746
RTI Str (0.24 in)	212	°F	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.24 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	92		ASTM D2457
Haze ³ (50.0 mil)	76.0	%	ASTM D1003

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 23°C