



INEOS PP H05H-01

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Features	• Food Contact Acceptable • High Heat Resistance • Heat Aging Resistant • 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

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)	5.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	5350	psi	ASTM D638
Tensile Strength ² (Break)	2600	psi	ASTM D638
Tensile Elongation ² (Yield)	9.2	%	ASTM D638
Tensile Elongation ² (Break)	140	%	ASTM D638
Flexural Modulus - 1% Secant	249000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.76	ft-lb/in	ASTM D256
Notched Izod Impact (Area) (73°F)	1.90	ft-lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	220	°F	ASTM D648
RTI Elec (0.12 in)	266	°F	UL 746
RTI Imp (0.12 in)	266	°F	UL 746
RTI Str (0.12 in)	266	°F	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	93		ASTM D2457
Haze ³ (50.0 mil)	73.0	%	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