



INEOS PP H53N-00

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

H53N-00 is a high flow rate nucleated and lightly lubricated homopolymer polypropylene designed for high-speed injection molding of thin-walled parts requiring good stiffness and fast cycle times. Typical applications are: media packaging, consumer products, housewares, and thin-wall rigid packaging and food service items. This grade 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
Additive	• Lubricant • Nucleating Agent
Features	• Fast Molding Cycle • High Flow • Food Contact Acceptable • Homopolymer • Nucleated • Good Stiffness • Lubricated
Uses	• Consumer Applications • Media Packaging • Food Service Applications • Rigid Packaging • Thin-walled Parts • Household Goods • Thin-walled 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	0.916		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	53	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	5520	psi	ASTM D638
Tensile Strength ² (Break)	3990	psi	ASTM D638
Tensile Elongation ² (Yield)	8.5	%	ASTM D638
Tensile Elongation ² (Break)	19	%	ASTM D638
Flexural Modulus - 1% Secant	259000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.50	ft-lb/in	ASTM D256
Notched Izod Impact (Area) (73°F)	1.24	ft-lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	237	°F	ASTM D648
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	92		ASTM D2457
Haze ³ (50.0 mil)	54.0	%	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