INEOS PP H53N-00

Polypropylene Homopolymer

INEOS Olefins & Polymers USA

Technical Data

Product Description

Grade 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. This product meets the requirements of the U.S. Food & Drug Administration as specified in 21 CFR177.1520

Applications
- Media packaging
- Consumer products
- Housewares
- Thin-wall rigid packaging
- Food service products

Benefits
- High flow rate
- Fast cycle times
- Good stiffness
- Very good molding performance in thin-walled parts

General

Additive	• Lubricant	• Nucleating Agent	
Features	• Fast Molding Cycle • Food Contact Acceptable • Good Moldability	• Good Stiffness • High Flow • Homopolymer	• Lubricated • Nucleated
Uses	• Consumer Applications • Food Packaging	• Household Goods • Media Packaging	• Rigid Packaging • Thin-walled Packaging
Agency Ratings	• FDA 21 CFR 177.1520		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	53 g/10 min	53 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength			ASTM D638
Yield, 73°F (23°C), Injection Molded	5990 psi	41.3 MPa	
Tensile Elongation			ASTM D638
Yield, 73°F (23°C), Injection Molded	8.0 %	8.0 %	
Break, 73°F (23°C), Injection Molded	33 %	33 %	
Flexural Modulus - 1% Secant [3] (Injection Molded)	245000 psi	1690 MPa	ASTM D790A
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
23°F (-5°C), 0.125 in (3.18 mm)	0.45 ft·lb/in	24 J/m	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-Scale)	107	107	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Injection Molded	239 °F	115 °C	