

CNC Machining | Sheet Metal | Injection Molding | Post-Processing

PP-H, or polypropylene homopolymer, is a type of polypropylene that is composed solely of propylene monomers. It is a high-performance thermoplastic with excellent mechanical properties, including high stiffness, strength, and chemical resistance. PP-H offers good dimensional stability, low moisture absorption, and high heat resistance.

Chemical Description

Description	Value
Material Type	Semi-Crystalline Thermoplastic
Chemical Name	PP Polypropylene Homopolymer
Additives	Unfilled
Color	Natural
UV Resistant	No

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	4.8
Tensile Modulus,ksi	195
Compressive Strength,ksi	7
Flexural Strength,ksi	7
Flexural Modulus,ksi	180
Notched Izod Impact	1.9
Strength,ft-lb/in	±

Physical Properties

Property	Maximum Unless Range is Specified	
Density,lbs/in3	0.033	
Water Absorption, 24 hrs, Immersion,% by wt.	<0.01	
Coefficient of Linear Thermal	6.2	
Expansion, x10-5 in./in./°F		
Heat Deflection Temp,°F at 263psi	125	
Max Continuous Operating	180	
Temp,°F		
Minimum Operating Temp,°F	14	
Flammability Rating, UL94	НВ	
Dielectric Strength,V/mil	500-660	
Dielectric Constant at 1 MHz	0.0005-0.0018	
Thermal	0.76-0.81	
Conductivity,BTU-in/ft²-hr-°F	0.70 0.01	

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.

US: 74 Henry Street, Secaucus, NJ,07094 Canada: 20641 Logan Ave, Langley, BC, V3A 7R3