

H20H-00 Polypropylene Homopolymer

H20H-00 is a homopolymer polypropylene designed for use in injection molding applications requiring high temperature resistance. H20H-00 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, automotive and compounding 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. This product is not recommended for taste or odor sensitive applications.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.9040 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	20.5 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	4,787 psi	33.0 MPa	
@ Break	2,210 psi	15.2 MPa	
Elongation (2 in/min)			D638
@ Yield	11.7 %	11.7 %	
@ Break	168 %	168 %	
Flexural Modulus (0.05 in/min)			D790
1% Secant	197,700 psi	1,364 MPa	
Notched Izod Impact Strength			D256
@ 23°C	0.68 ft-lbf/in	3.54 kJ/m ²	
Hardness			D785
Rockwell R	98	98	
Deflection Temperature			D648
@ 66 psi (455 kPa)	219 °F	104 °C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	72 %	72 %	
Gloss at 60 ° angle	93	93	D2457
UL Recognition			
Relative Thermal Index	266 °F	130 °C	
Flammability Classification	HB	HB	UL94

¹ Typical properties not to be used for specifications.