

H12G-00 Polypropylene Homopolymer

H12G-00 is a homopolymer polypropylene designed for use in general purpose injection molding applications. Typical applications include consumer products, housewares and rigid packaging. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.908 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	12.0 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in./min)			D638
@ Yield	5,300 psi	36.5 MPa	
@ Break	2,500 psi	17.2 MPa	
Elongation (2 in./min)			D638
@ Yield	9.2 %	9.2 %	
@ Break	< 100 %	<100 %	
Flexural Modulus			D790A
1% Secant	240,000 psi	1,654 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.54 ft-lbf/in	2.8 kJ/m ²	
Hardness			D785
Rockwell R	105	105	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	216 F	102 C	
Vicat Softening Point	311 F	155 C	D1525

¹ Typical properties will vary and are not to be used for specifications.