

# H12G-01 Polypropylene Homopolymer

H12G-01 is a homopolymer polypropylene designed for use in general purpose injection molding and extrusion applications. Typical applications include housewares, rigid packaging, caps and closures and film and sheet. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.909 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	12 g/10 min	D1238
<b>Injection Molded Samples</b>			
Tensile Strength (2 in./min)			D638
@ Yield	5,200 psi	35.8 MPa	
@ Break	2,400 psi	MPa	
Elongation (2 in./min)			D638
@ Yield	9.4 %	9.4 %	
@ Break	109 %	109 %	
Flexural Modulus			D790A
1% Secant	243,600 psi	1,690 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.59 ft-lbf/in	3.1 kJ/m <sup>2</sup>	
Hardness			D785
Rockwell R	103	103	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	216 F	102 C	
Vicat Softening Point	307 F	153 C	D1525

<sup>1</sup> Typical properties will vary and are not to be used for specifications.