

H38G-02 Polypropylene Homopolymer

H38G-02 is a homopolymer polypropylene designed for general purpose injection molding, compounding, and high speed spinning applications. In addition to general purpose injection molding applications, it is used for the production of spun bonded nonwovens and partially oriented yarn (POY). H38G-02 exhibits excellent gas fade resistance and its narrow molecular weight distribution results in excellent processability and high line speeds. This grade 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	—	0.9064 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	38 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	4,873 psi	33.4 MPa	
@ Break	2,580 psi	17.7 MPa	
Elongation (2 in/min)			D638
@ Yield	11.0 %	11.0 %	
@ Break	530 %	530 %	
Flexural Modulus			D790A
1% Secant	188,500 psi	1,301 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.45 ft-lbf/in	2.37 kJ/m ²	
Hardness			D785
Rockwell R	100	100	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	195 F	90.5 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	69.2 %	69.2 %	
Gloss at 60 ° angle	93	93	D2457

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