

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.

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Regulatory Information

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The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

For additional information, samples, pricing and availability, please contact:

INEOS Olefins & Polymers, USA

Marina View Building
2600 South Shore Boulevard
Suite 500
League City, Texas 77573
Phone: +1 281 535 6600
Fax: +1 281 535 6764
Customer Service: +1 800 527 5419
Tech Service: +1 800 338 0489
www.ineos-op.com

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2600 South Shore Boulevard, Ste. 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

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