

H03G-05 Polypropylene Homopolymer

H03G-05 is a polypropylene homopolymer designed for BOPP applications and meets the requirements of the U.S. Food and Drug administration as specified in 21 CFR 177.1520. This high strength, barefoot resin has good optical properties and consistent, high speed processing. Typical applications are: Food Packaging, Overwrap and Metallized Film.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.9050 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	3.4 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	4,750 psi	32.5 MPa	
@ Break	2,790 psi	19.1 MPa	
Elongation (2 in/min)			D638
@ Yield	12.5 %	12.5 %	
@ Break	143 %	143 %	
Flexural Modulus			D790A
1% Secant	195,500 psi	1,349 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.78 ft-lbf/in	4.11 kJ/m ²	
Hardness			D785
Rockwell R	94.8	94.8	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	191 F	88 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	71.5 %	71.5 %	
Gloss at 60 ° angle	95	95	D2457

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