

H03G-06 Polypropylene Homopolymer

H03G-06 is a polypropylene homopolymer designed for BOPP applications. Applications include food packaging films, overwrap, and metallized films. Benefits include consistent high speed processing and good optical properties. This resin meets the requirements of the U.S. Food and Drug administration as specified in 12 CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.9051 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	3.0 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	4,903 psi	33.6 MPa	
@ Break	2,847 psi	19.5 MPa	
Elongation (2 in/min)			D638
@ Yield	11.9 %	11.9 %	
@ Break	145 %	145 %	
Flexural Modulus			D790A
1% Secant	205,500 psi	1,418 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.8 ft-lbf/in	4.1 kJ/m ²	
Hardness			D785
Rockwell R	97	97	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	199 F	93 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	71.7 %	71.7 %	
Gloss at 60 ° angle	93.7	93.7	D2457

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