

H03G-00 Polypropylene Homopolymer

H03G-00 is a general purpose homopolymer polypropylene designed for extrusion applications including carpet backing, fiber and tape, rope and cordage, fiber bags, and twine. This material 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	—	0.9083 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	3.5 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	5,165 psi	35.6 MPa	
@ Break	2,790 psi	19.2 MPa	
Elongation (2 in/min)			D638
@ Yield	10.2 %	10.2 %	
@ Break	129 %	129 %	
Flexural Modulus			D790A
1% Secant	231,000 psi	1,600 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.82 ft-lbf/in	4.28 kJ/m ²	
Hardness			D785
Rockwell R	101	101	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	217 F	103 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	71%	71%	
Gloss at 60 ° angle	94	94	D2457

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