

H03W-01 Polypropylene Homopolymer

H03W-01 is a homopolymer polypropylene specifically designed for fiber applications which require low-water-carryover characteristics coupled with good melt and thermal stability in the finished product. Typical applications for H03W-01 include cordage, carpet backing, industrial fabrics, and geotextiles. 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	—	0.9153 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	3.6 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	5,400 psi	37.2 MPa	
@ Break	2,600 psi	18.1 MPa	
Elongation (2 in/min)			D638
@ Yield	8.6 %	8.6 %	
@ Break	97.4 %	97.4 %	
Flexural Modulus			D790A
1% Secant	259,000 psi	1,790 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.71 ft-lbf/in	3.75 kJ/m ²	
Hardness			D785
Rockwell R	96	96	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	226 F	108 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	78%	78%	
Gloss at 60 ° angle	93	93	D2457

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