

H04W-01 Polypropylene Homopolymer

H04W-01 is a homopolymer polypropylene designed for extrusion processing in applications that require low water-carry-over. Typical applications include Carpet Backing, Woven Bags, and Twine. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(c)1.1a

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.906 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	4.2 g/10 min	D1238
Injection Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	5,280 psi	36.2 MPa	
@ Break	2,640 psi	18.1 MPa	
Elongation (2 in/min)			D638
@ Yield	9.5%	9.5%	
@ Break	150%	150%	
Flexural Modulus			D790A
1% Secant	240,000 psi	1,650 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.7 ft-lbf/in	3.6 kJ/m ²	
Hardness			D785
Rockwell R	103	103	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	223°F	106°C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	78.8%	78.8%	
Gloss at 60 ° angle	92	92	D2457

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