

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.

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Regulatory Information

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The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.ineos-op.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

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