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 Properties[1]

	Values		ASTM
	English Units	SI Units	Method
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.

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2600 South Shore Boulevard, Ste. 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS Olefins & Polymers USA

Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

Health and Safety Information

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.

For additional information, samples, pricing and availability, please contact:

INEOS Olefins & Polymers, USA
Marina View Building
2600 South Shore Boulevard
Suite 500
League City, Texas 77573
Phone: +1 281 535 6600
Fax: +1 281 535 6764
Customer Service: +1 800 527 5419
Tech Service: +1 800 338 0489
www.ineos-op.com

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