

# H03W-00 Polypropylene Homopolymer

H03W-00 is a low water carryover homopolymer polypropylene designed for extrusion processing. Typical products 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.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.9084 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	3.5 g/10 min	D1238
<b>Injection Molded Samples</b>			
Tensile Strength (2 in/min)			D638
@ Yield	5,355 psi	37.0 MPa	
@ Break	2,610 psi	18.0 MPa	
Elongation (2 in/min)			D638
@ Yield	9.1%	9.1%	
@ Break	105%	105%	
Flexural Modulus			D790A
1% Secant	251,000 psi	1,725 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.70 ft-lbf/in	3.67 kJ/m <sup>2</sup>	
Hardness			D785
Rockwell R	104	104	
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	224 F	107 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			D1003
% Diffuse Transmittance	74.5%	74.5%	
Gloss at 60 ° angle	94	94	D2457

<sup>1</sup> Typical properties will vary and are not to be used for specifications.