

INEOS PP H03W-01

Polypropylene Homopolymer
INEOS Olefins & Polymers USA

Message:

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.

General Information			
Features	Food Contact Acceptable		
	Good Thermal Stability		
	High Melt Stability		
	Homopolymer		
	Low Water Carryover		
Uses	Carpet Backing		
	Fabrics		
	Fibers		
	Industrial Applications		
	Textile Applications		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.915	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.6	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	96		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	37.2	MPa	
Break	17.9	MPa	
Tensile Elongation ²			ASTM D638
Yield	8.6	%	
Break	97	%	
Flexural Modulus - 1% Secant	1790	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	38	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	3.75	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	108	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	93		ASTM D2457
Haze ³ (1270 μm)	78	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

