



INEOS PP H03W-01

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
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
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.918		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	3.6	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	5400	psi	ASTM D638
Tensile Strength ² (Break)	2600	psi	ASTM D638
Tensile Elongation ² (Yield)	8.6	%	ASTM D638
Tensile Elongation ² (Break)	97	%	ASTM D638
Flexural Modulus - 1% Secant	259000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.71	ft-lb/in	ASTM D256
Notched Izod Impact (Area) (73°F)	1.78	ft-lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	96		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	226	°F	ASTM D648
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	93		ASTM D2457
Haze ³ (50.0 mil)	78.0	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 23°C