INEOS PP H04W-01

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

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

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Food Contact Acceptable	• Homopolymer	• Low Water Carryover
Uses	• Bags	• Carpet Backing	• Twine
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	0.908		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	4.2	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	5250	psi	ASTM D638
Tensile Strength [2] (Break, Injection Molded)	2630	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	9.5	%	ASTM D638
Tensile Elongation [2] (Break, Injection Molded)	150	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	239000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	0.70	ft·lb/in	ASTM D256
Notched Izod Impact (Area) (73°F, Injection Molded)	1.71	ft·lb/in²	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	103		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	223	°F	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, Injection Molded)	92		ASTM D2457
Haze [3] (50.0 mil, Injection Molded)	78.8	%	ASTM D1003

Notes

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

[2] 2.0 in/min

[3] 23°C