



INEOS PP H02C-01

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

H02C-01 is a low flow rate, clarified homopolymer designed for extrusion, thermoforming, blow molding, and rigid packaging applications that require good see-through clarity combined with good heat resistance. Typical applications include thermoformed cups, containers and lidding; extrusion blow molded containers and bottles, injection stretch blow molded containers and bottles, extruded sheet and profiles. 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		
Additive	• Clarifier		
Features	• Food Contact Acceptable • High Clarity	• Homopolymer • Low Flow	• Medium Heat Resistance
Uses	• Blow Molding Applications • Bottles • Containers	• Cups • Lids • Profiles	• Rigid Packaging • Sheet • Thermoforming Applications
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion • Extrusion Blow Molding	• Injection Stretch Blow Molding • Profile Extrusion • Sheet Extrusion	• Thermoforming

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.910		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	5300	psi	ASTM D638
Tensile Strength ² (Break, Injection Molded)	2600	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	9.1	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	120	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	230000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, Injection Molded)	1.0	ft-lb/in	ASTM D256
Notched Izod Impact (Area) (73°F, Injection Molded)	1.33	ft-lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	97		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Injection Molded	224	°F	ASTM D648
Vicat Softening Temperature	302	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	96		ASTM D2457
Haze ³ (50.0 mil)	25.0	%	ASTM D1003

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Notes

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

² 2.0 in/min

³ 23°C