



INEOS PP H02C-04

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

H02C-04 is a low flow rate, high clarity, nucleated homopolymer designed for extrusion, thermoforming, blow molding and rigid packaging applications that require good see-through clarity combined with good heat resistance. H02C-04 utilizes new nucleator technology that gives the finished part a slight bluish hue resulting in a clearer and crisper-looking final product. Typical applications include thermoformed cups, containers and lidding; extrusion blow molded containers and bottles, injection stretch blow molded containers and bottles and extruded sheets 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	• Nucleating Agent		
Features	• Food Contact Acceptable • High Clarity	• Homopolymer • Low Flow	• Medium Heat Resistance • Nucleated
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	0.911		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)	5300	psi	ASTM D638
Tensile Strength ² (Break)	2700	psi	ASTM D638
Tensile Elongation ² (Yield)	9.7	%	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus - 1% Secant	233000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.2	ft-lb/in	ASTM D256
Notched Izod Impact (Area) (73°F)	3.09	ft-lb/in ²	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	230	°F	ASTM D648
Vicat Softening Temperature	309	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	95		ASTM D2457
Haze ³ (50.0 mil)	31.0	%	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