INEOS PP H02C-00

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

H02C-00 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. 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	• 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, 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)	240000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	0.50	ft·lb/in	ASTM D256
Notched Izod Impact (Area) (73°F, Injection Molded)	1.33	ft·lb/in²	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	99		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	230	°F	
Vicat Softening Temperature	309	°F	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°)	96		ASTM D2457
Haze [3] (50.0 mil)	30.0	%	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