INEOS PP H12G-01

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

H12G-01 is a homopolymer polypropylene designed for use in general purpose injection molding and extrusion applications. Typical applications include housewares, rigid packaging, caps and closures and film and sheet. 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	• General Purpose	• Homopolymer
Uses	• Caps • Closures • Film	• General Purpose • Household Goods • Rigid Packaging	• Sheet
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

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)	12	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	5200	psi	ASTM D638
Tensile Strength [2] (Break, Injection Molded)	2400	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	9.4	%	ASTM D638
Tensile Elongation [2] (Break, Injection Molded)	110	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	244000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	0.59	ft·lb/in	ASTM D256
Notched Izod Impact (Area) (73°F, Injection Molded)	1.48	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	216	°F	
Vicat Softening Temperature	307	°F	ASTM D1525

Notes

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

[2] 2.0 in/min