



# INEOS PP R12C-01

INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

## General Information

### Product Description

R12C-01 is a clarified medium melt flow rate, and antistatic polypropylene copolymer designed for injection molding and stretch blow molding end-use applications. 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	• Antistatic	• Clarifier	
Features	• Antistatic • Food Contact Acceptable	• High Clarity • Medium Flow	• Random Copolymer
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding	• Stretch Blow Molding	

## ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.905		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 <sup>2</sup> (Yield)	4530	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	2560	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	13	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	200	%	ASTM D638
Flexural Modulus - 1% Secant	168000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
39°F	0.50	ft·lb/in	
73°F	1.2	ft·lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F	1.71	ft·lb/in <sup>2</sup>	
73°F	2.95	ft·lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	176	°F	ASTM D648
Vicat Softening Temperature	268	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	98		ASTM D2457
Haze <sup>3</sup> (50.0 mil)	11.2	%	ASTM D1003

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min

<sup>3</sup> 23°C