



# INEOS PP R01C-01

## INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

### General Information

#### Product Description

R01C-01 is a low melt flow rate high clarity nucleated random copolymer designed for extruded sheet and profiles, including blow molding and thermoformed packaging. End-use applications that require good see-through clarity combined with good heat resistance and refrigerator temperature impact properties can benefit from using R01C-01. 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 • Low Flow • Nucleated • High Clarity • Medium Heat Resistance • Random Copolymer
Uses	• Packaging • Profiles • Sheet
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Blow Molding • Sheet Extrusion • Profile Extrusion • Thermoforming

### 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)	1.9	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, Injection Molded)	4270	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break, Injection Molded)	2740	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	13	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Injection Molded)	170	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	159000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
39°F, Injection Molded	0.50	ft-lb/in	
73°F, Injection Molded	6.4	ft-lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F, Injection Molded	1.24	ft-lb/in <sup>2</sup>	
73°F, Injection Molded	15.9	ft-lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	81		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	190	°F	
Vicat Softening Temperature	271	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	97		ASTM D2457

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Optical	Nominal Value	Unit	Test Method
Haze <sup>3</sup> (50.0 mil)	16.0	%	ASTM D1003

### 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