



## INEOS PP R01C-00

### INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

#### General Information

##### Product Description

R01C-00 is a low flow rate, high clarity, and antistatic polypropylene random copolymer designed for extrusion, thermoforming and blow molding applications. This grade benefits from excellent see-through clarity, high room and refrigerator-temperature impact resistance, and good processability. This material has been recognized by UL for sustained use at 65°C and 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		
Features	• Antistatic • Food Contact Acceptable • Good Processability	• High Clarity • High Impact Resistance • Low Flow	• Random Copolymer
Uses	• Blow Molding Applications	• Thermoforming Applications	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Thermoforming

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.904		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)	4090	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	2760	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	14	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	350	%	ASTM D638
Flexural Modulus - 1% Secant	156000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
39°F	0.80	ft-lb/in	
73°F	5.6	ft-lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F	2.05	ft-lb/in <sup>2</sup>	
73°F	13.9	ft-lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	176	°F	ASTM D648
Vicat Softening Temperature	271	°F	ASTM D1525
RTI Elec (0.06 in)	149	°F	UL 746
RTI Imp (0.06 in)	149	°F	UL 746
RTI Str (0.06 in)	149	°F	UL 746

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	100		ASTM D2457
Haze <sup>3</sup> (50.0 mil)	12.0	%	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