



## INEOS PP R35C-01

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

Tuesday, November 5, 2019

#### General Information

##### Product Description

R35C-01 is a high flow rate, high clarity random copolymer having a moderate level of antistat. In addition to clarity, its benefits include rapid molding cycles and good impact at room and refrigerator temperatures. It meets the requirements of the U.S. Food and Drug Administration, as specified in 21 CFR 177.1520. Typical applications include thin-wall rigid packaging, consumer products, housewares and medical items.

##### General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antistatic		
Features	• Antistatic • Fast Molding Cycle • Food Contact Acceptable	• Good Impact Resistance • High Clarity • High Flow	• Random Copolymer
Uses	• Consumer Applications • Household Goods	• Medical/Healthcare Applications • Rigid Packaging	• Thin-walled Packaging
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.906		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	4300	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	2560	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	14	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	> 500	%	ASTM D638
Flexural Modulus - 1% Secant	159000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
39°F	0.57	ft-lb/in	
73°F	0.88	ft-lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F	1.43	ft-lb/in <sup>2</sup>	
73°F	2.19	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)	181	°F	ASTM D648
Vicat Softening Temperature	267	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	98		ASTM D2457
Haze <sup>3</sup> (50.0 mil)	14.0	%	ASTM D1003

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### Notes

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

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

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<sup>3</sup> 23°C