



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	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> North America 		
Additive	<ul style="list-style-type: none"> Antistatic 		
Features	<ul style="list-style-type: none"> Antistatic Food Contact Acceptable Good Processability 	<ul style="list-style-type: none"> High Clarity High Impact Resistance Low Flow 	<ul style="list-style-type: none"> Random Copolymer
Uses	<ul style="list-style-type: none"> Blow Molding Applications 	<ul style="list-style-type: none"> Thermoforming Applications 	
Agency Ratings	<ul style="list-style-type: none"> EC 1907/2006 (REACH) 	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 	
RoHS Compliance	<ul style="list-style-type: none"> Contact Manufacturer 		
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Blow Molding 	<ul style="list-style-type: none"> Extrusion 	<ul style="list-style-type: none"> Thermoforming

ASTM & ISO Properties ¹

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 ² (Yield)	4090	psi	ASTM D638
Tensile Strength ² (Break)	2760	psi	ASTM D638
Tensile Elongation ² (Yield)	14	%	ASTM D638
Tensile Elongation ² (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 ²	
73°F	13.9	ft·lb/in ²	
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 ³ (50.0 mil)	12.0	%	ASTM D1003

Notes

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

² 2.0 in/min

³ 23°C