

INEOS PP R01C-00

Polypropylene Random Copolymer

INEOS Olefins & Polymers USA



Product Description

Grade R01C-00 is a low flow rate, high clarity random copolymer designed for extrusion, thermoforming and blow molding, through it is clarifier/antistat additive combination. Applications that require good see-through clarity combined with good heat resistance and refrigerator temperature impact properties can benefit from the use of grade R01C-00. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Applications

- Thermoformed packaging (cups, containers, lidding)
- Extrusion blow molded containers and bottles
- Injection blow molded containers and bottles
- Extruded sheet and profiles

Benefits

- Excellent clarity
- Excellent processability
- Good impact resistance at room and refrigerator temperatures
- Low static charge

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antistatic	• Clarifier	
Features	• Antistatic	• Good Processability	• Low Flow
	• Food Contact Acceptable	• High Clarity	• Low Temperature Impact Resistance
	• Good Impact Resistance	• High Heat Resistance	• Random Copolymer
Uses	• Blow Molding Applications	• Containers	• Profiles
	• Blown Containers	• Cups	• Sheet
	• Bottles	• Lids	
Agency Ratings	• FDA 21 CFR 177.1520		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Blow Molding	• Injection Blow Molding	
	• Extrusion	• Profile Extrusion	• Thermoforming
	• Extrusion Blow Molding	• Sheet Extrusion	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.9 g/10 min	1.9 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield, 73°F (23°C), Injection Molded	4150 psi	28.6 MPa	
Flexural Modulus - 1% Secant ²			ASTM D790A
73°F (23°C), Injection Molded	145000 psi	1000 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
39°F (4°C), 0.125 in (3.18 mm), Injection Molded ³	1.4 ft-lb/in	75 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded ⁴	9.8 ft-lb/in	520 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Injection Molded	162 °F	72.2 °C	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (50.0 mil (1270 µm), Injection Molded)	11 %	11 %	ASTM D1003

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Notes

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

² 0.050 in/min (1.3 mm/min)

³ Complete Failure

⁴ Hinge Failure

Revision History

Document Created: Tuesday, March 20, 2012
Added to Prospector: June, 2005
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