

INEOS PP R01C-00

Polypropylene Random Copolymer

INEOS Olefins & Polymers USA

Message:

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 Information			
UL YellowCard	E31830-314140		
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	28.2	MPa	

Break	19.0	MPa	
Tensile Elongation ²			ASTM D638
Yield	14	%	
Break	350	%	
Flexural Modulus - 1% Secant	1080	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
4°C	43	J/m	
23°C	300	J/m	
Notched Izod Impact (Area)			ASTM D256
4°C	4.30	kJ/m ²	
23°C	29.3	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	133	°C	ASTM D1525
RTI Elec (1.50 mm)	65.0	°C	UL 746
RTI Imp (1.50 mm)	65.0	°C	UL 746
RTI Str (1.50 mm)	65.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	100		ASTM D2457
Haze ³ (1270 μm)	12	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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