

# INEOS PP R01C-01

Polypropylene Random Copolymer

INEOS Olefins & Polymers USA

Message:

R01C-01 is a low melt flow rate high clarity nucleated random copolymer designed for extruded sheet and profiles, including blow molding and thermoformed packaging. End-use applications that require good see-through clarity combined with good heat resistance and refrigerator temperature impact properties can benefit from using R01C-01. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	High Clarity		
	Low Flow		
	Medium Heat Resistance		
	Nucleated		
	Random Copolymer		
Uses	Packaging		
	Profiles		
	Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Blow Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.903	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	81		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	29.4	MPa	

Break	18.9	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	13	%	
Break	170	%	
Flexural Modulus - 1% Secant	1090	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
4°C	27	J/m	
23°C	340	J/m	
Notched Izod Impact (Area)			ASTM D256
4°C	2.60	kJ/m <sup>2</sup>	
23°C	33.4	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	87.8	°C	ASTM D648
Vicat Softening Temperature	133	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	97		ASTM D2457
Haze <sup>3</sup> (1270 μm)	16	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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#### Recommended distributors for this material

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