

INEOS PP R12C-01

Polypropylene Random Copolymer

INEOS Olefins & Polymers USA

Message:

R12C-01 is a clarified medium melt flow rate, and antistatic polypropylene copolymer designed for injection molding and stretch blow molding end-use applications. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information	
UL YellowCard	E31830-230781
Additive	Antistatic
	Clarifier
Features	Antistatic
	Food Contact Acceptable
	High Clarity
	Medium Flow
	Random Copolymer
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1520
RoHS Compliance	Contact Manufacturer
Forms	Pellets
Processing Method	Injection Molding
	Stretch Blow Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.903	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	31.2	MPa	
Break	17.7	MPa	
Tensile Elongation ²			ASTM D638
Yield	13	%	
Break	200	%	
Flexural Modulus - 1% Secant	1160	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
4°C	27	J/m	
23°C	64	J/m	
Notched Izod Impact (Area)			ASTM D256
4°C	3.60	kJ/m ²	
23°C	6.20	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	131	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	98		ASTM D2457
Haze ³ (1270 μm)	11	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	23°C		

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