



INEOS PP R12C-01

INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antistatic • Clarifier
Features	• Antistatic • High Clarity • Random Copolymer • Food Contact Acceptable • Medium Flow
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding • Stretch Blow Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.905		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	4530	psi	ASTM D638
Tensile Strength ² (Break)	2560	psi	ASTM D638
Tensile Elongation ² (Yield)	13	%	ASTM D638
Tensile Elongation ² (Break)	200	%	ASTM D638
Flexural Modulus - 1% Secant	168000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
39°F	0.50	ft-lb/in	
73°F	1.2	ft-lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F	1.71	ft-lb/in ²	
73°F	2.95	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	176	°F	ASTM D648
Vicat Softening Temperature	268	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	98		ASTM D2457
Haze ³ (50.0 mil)	11.2	%	ASTM D1003

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Notes

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

² 2.0 in/min

³ 23°C