



INEOS PP R55C-00

INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

R55C-00 is a clarified antistatic random copolymer for thin wall molding applications requiring very good mold filling capabilities, excellent clarity, fast cycle times and good stiffness-to-impact properties balance. 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 • Food Contact Acceptable • Random Copolymer • Fast Molding Cycle • High Clarity
Uses	• Thin-walled Parts
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.903		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	55	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	4060	psi	ASTM D638
Tensile Strength ² (Break, Injection Molded)	3530	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	13	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	> 800	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	149000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
39°F, Injection Molded	0.40	ft-lb/in	
73°F, Injection Molded	0.77	ft-lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F, Injection Molded	0.999	ft-lb/in ²	
73°F, Injection Molded	1.90	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	83		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	185	°F	
Vicat Softening Temperature	237	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	91		ASTM D2457
Haze ³ (50.0 mil)	16.5	%	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