

R55C-00 Polypropylene Random Copolymer

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.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.901 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	55 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,060 psi	27.9 MPa	
@ Break	3,530 psi	24.3 MPa	
Elongation (2 in/min)			D638
@ Yield	12.5 %	12.5 %	
@ Break	>800 %	>800 %	
Flexural Modulus			D790A
1% Secant	148,600 psi	1,024 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.77 ft.-lbf/in	4.0 kJ/m ²	
@ 4 C	0.40 ft.-lbf/in	2.1 kJ/m ²	
Hardness			D785
Rockwell R	83	83	
Vicat Softening Point	237 F	114 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	185 F	85 C	
Haze, @ 23°C, 50-mil (1.3mm) plaque,			D1003
% Diffuse Transmittance	16.5	16.5	
Gloss Units, 60° angle	91	91	D2457

¹ Typical properties will vary and are not to be used for specifications.