

R01C-00 Polypropylene Random Copolymer

R01C-00 is a low flow rate, high clarity, and antistatic polypropylene random copolymer designed for extrusion, thermoforming and blow molding applications. This grade benefits from excellent see-through clarity, high room and refrigerator-temperature impact resistance, and good processability. This material has been recognized by UL for sustained use at 65°C and 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	—	0.902 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	1.9 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,090 psi	28.2 MPa	
@ Break	2,760 psi	19.0 MPa	
Elongation (2 in/min)			D638
@ Yield	—	14%	
@ Break	—	345%	
Flexural Modulus			D790A
1% Secant	156,000 psi	1,073 MPa	
Notched Izod Impact Strength			D256
@ 23 C	5.6 ft-lb _f /in	29.3 kJ/m ²	
@ 4 C	0.8 ft-lb _f /in	4.3 kJ/m ²	
Hardness			D785
Rockwell R	—	79	
Vicat Softening Point	271 F	133 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	176 F	80 C	
Haze, @ 23°C, 50-mil (1.3mm) plaque,			D1003
% Diffuse Transmittance	—	12%	
Gloss at 60° angle	—	100	D2457
UL Recognition (1.5 mm thickness)			UL94
Relative Temperature Index	149 F	65 C	
Flammability Classification	—	HB	

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