

R01A-00 Polypropylene Random Copolymer

R01A-00 is a low flow rate, antistatic polypropylene random copolymer. It is designed for blow molding, thermoforming and extrusion applications that require good stiffness and improved processability. Benefits of this grade include good see-through and contact clarity and good impact resistance at both room and refrigerator temperatures. 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	—	0.900 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	4,070 psi	28.0 MPa	
@ Break	3,180 psi	22.0 MPa	
Elongation (2 in/min)			D638
@ Yield	—	13%	
@ Break	—	675%	
Flexural Modulus			D790A
1% Secant	143,000 psi	985 MPa	
Notched Izod Impact Strength			D256
@ 23 C	1.6 ft-lb _i /in	8.3 kJ/m ²	
@ 4 C	0.7 ft-lb _i /in	3.6 kJ/m ²	
Hardness			D785
Rockwell R	—	76	
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	—	57%	
Gloss at 60° angle	—	93	D2457

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