

R35C-00 Polypropylene Random Copolymer

R35C-00 is a high flow rate, high clarity random copolymer. In addition to clarity, its benefits include rapid molding cycles and good impact at room and refrigerator temperatures. It meets the requirements of the U.S. Food and Drug Administration, as specified in 21 CFR 177.1520. Typical applications are thin-wall rigid packaging, consumer products, housewares and medical items.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.903 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	35 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,223 psi	29.1 MPa	
@ Break	3,217 psi	22.2 MPa	
Elongation (2 in/min)			D638
@ Yield	13.9 %	13.9 %	
@ Break	750 %	750 %	
Flexural Modulus (0.05 in/min)			D790
1% Secant	155,667 psi	1,074 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.9 ft-lbf/in	4.7 kJ/m ²	
@ 4 C	0.6 ft-lbf/in	3.0 kJ/m ²	
Hardness			D785
Rockwell R	87.3	87.3	
Vicat Softening Point	267 F	130.5 C	D1525
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	174.7 F	79.3 C	
Haze, @ 23°C, 50-mil (1.3mm) plaque,			D1003
% Diffuse Transmittance	18 %	18 %	
Gloss at 60° angle		96 %	D2457

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