

R35C-02 Polypropylene Random Copolymer

R35C-02 is a high flow rate, high clarity, lubricated random copolymer designed for high-speed injection molding of medium to thin walled parts requiring excellent clarity, fast cycle times and ease of de-nesting. Finished parts produced with R35C-02 will exhibit a bluish hue, giving a look of enhanced clarity. 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	—	0.904 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	4,260 psi	29.4 MPa	
@ Break	2,500 psi	17.2 MPa	
Elongation (2 in/min)			D638
@ Yield	13.8 %	13.8 %	
@ Break	>500 %	>500 %	
Flexural Modulus			D790A
1% Secant	155,700 psi	1,074 MPa	
Notched Izod Impact Strength			D256
@ 23 C	1.14 ft-lbf/in	5.98 kJ/m ²	
@ 4 C	0.60 ft-lbf/in	3.16 kJ/m ²	
Hardness			D785
Rockwell R	83	83	
Vicat Softening Point	266 F	130 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	172 F	78 C	
Haze, @ 23°C, 50-mil (1.3mm) plaque,			D1003
% Diffuse Transmittance	17 %	17 %	
Gloss at 60° angle		96 %	D2457

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