

# R55C-01 Polypropylene Random Copolymer

R55C-01 is a high flow rate, ultra-high clarity, lubricated and antistatic 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 R55C-01 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 Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.901 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	55 g/10 min	D1238
<b>Injection Molded Sample</b>			
Tensile Strength (2 in/min)			D638
@ Yield	4,400 psi	30.4 MPa	
@ Break	2,500 psi	17.0 MPa	
Elongation (2 in/min)			D638
@ Yield	14 %	14 %	
@ Break	>400 %	>400 %	
Flexural Modulus			D790A
1% Secant	160,000 psi	1,110 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.97 ft.-lbf/in	5.1 kJ/m <sup>2</sup>	
@ 4 C	0.40 ft.-lbf/in	2.1 kJ/m <sup>2</sup>	
Hardness			D785
Rockwell R	82	82	
Vicat Softening Point	262 F	128 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	167 F	75 C	
Haze, @ 23°C, 50-mil (1.3mm) plaque,			D1003
% Diffuse Transmittance	7	7	
Gloss Units, 60° angle	105	105	D2457

<sup>1</sup> Typical properties will vary and are not to be used for specifications.