

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 Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.901 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	55 g/10 min	D1238
Injection Molded Sample			
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 ²	
@ 4 C	0.40 ft.-lbf/in	2.1 kJ/m ²	
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

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

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

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The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.ineos-op.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

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