R01C-00 Polypropylene Random Copolymer

R01C-00 is a low flow rate, high clarity, and antistatic polypropylene random copolymer designed for extrusion, thermoforming and blow molding applications. This grade benefits from excellent see-through clarity, high room and refrigerator-temperature impact resistance, and good processability. This material has been recognized by UL for sustained use at 65°C and meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	–	0.902 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	4,090 psi	28.2 MPa	
@ Break	2,760 psi	19.0 MPa	
Elongation (2 in/min)			**D638**
@ Yield	–	14%	
@ Break	–	345%	
Flexural Modulus			**D790A**
1% Secant	156,000 psi	1,073 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	5.6 ft-lb_f/in	29.3 kJ/m^2	
@ 4 C	0.8 ft-lb_f/in	4.3 kJ/m^2	
Hardness			**D785**
Rockwell R	–	79	
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	–	12%	
Gloss at 60° angle	–	100	**D2457**
UL Recognition (1.5 mm thickness)			**UL94**
Relative Temperature Index	149 F	65 C	
Flammability Classification	–	HB	

[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.

Health and Safety Information

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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