R01C-01 Polypropylene Random Copolymer

R01C-01 is a low melt flow rate high clarity nucleated random copolymer designed for extruded sheet and profiles, including blow molding and thermoformed packaging. End-use applications that require good see-through clarity combined with good heat resistance and refrigerator temperature impact properties can benefit from using R01C-01. This material 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	—	0.903 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	4,270 psi	29.4 MPa	
@ Break	2,740 psi	18.9 MPa	
Elongation (2 in/min)			**D638**
@ Yield	13.4 %	13.4 %	
@ Break	165 %	165 %	
Flexural Modulus			**D790A**
1% Secant	158,670 psi	1,094 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	6.4 ft.-lbf/in - partial failure	33.4 kJ/m²	
@ 4 C	0.5 ft.-lbf/in - complete failure	2.6 kJ/m²	
Hardness			**D785**
Rockwell R	81	81	
Vicat Softening Point	271 F	133 C	**D1525**
Deflection Temperature			**D648**
@ 66 psi (455 kPa)	190 F	88 C	
Haze, @ 23°C, 50-mil (1.3mm) plaque,			**D1003**
% Diffuse Transmittance	—	16	
Gloss Units, 60° angle	—	96.5	**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.

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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