

R01C-01 Polypropylene Random Copolymer

Grade R01C-01 is a low flow rate, high clarity random copolymer designed for extrusion, thermoforming and blow molding. Applications that require good see-through clarity combined with good heat resistance and refrigerator temperature impact properties can benefit from the use of grade R01C-01. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Applications

- Thermoformed packaging (cups, containers, lidding)
- Extrusion blow molded containers and bottles
- Extruded sheet and profiles

Benefits

- Excellent clarity
- Excellent processability
- Good impact resistance at room and refrigerator temperatures

Typical Properties¹

Resin	Value	Method
Melt Flow Rate, 2.16 kg at 230°C, g/10 min	2.0	D1238
Injection Molded Sample		
Tensile Properties at 23°C		D638
Strength at Yield, psi (MPa)	4,040 (27.8)	
Elongation at yield, %	13.8	
Flexural Modulus, 23°C, kpsi (MPa)		D790
Condition A (test speed 0.05'/min)	130(900)	
Condition B (test speed 0.5'/min)	171(1180)	
Heat Deflection Temperature at 66 psi, (455 kPa), °F (°C)	169(76.1)	D648
Izod Impact Strength, 1/8" (3 mm) notched bar, ft-lb/in (J/m)		D256
Room Temperature	9.6(512)- partial failure	
4°C (refrigerator temperature)	5.6(302)-partial failure	
Haze, at 23°C, 50-mil (1.3mm) plaque, % Transmittance	14.4	D1003
Gloss, at 60° angle	94.8	D2457
Rockwell Hardness, R Scale	84	D785

¹Typical properties will vary within specification limits.

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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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