R12C-01 Polypropylene Random Copolymer

R12C-01 is a clarified medium melt flow rate, and antistatic polypropylene copolymer designed for injection molding and stretch blow molding end-use applications. 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	—	12 g/10 min	**D1238**
Injection Molded Sample			
Tensile Strength (2 in/min)			**D638**
@ Yield	4,527 psi	31.2 MPa	
@ Break	2,560 psi	17.6 MPa	
Elongation (2 in/min)			**D638**
@ Yield	13 %	13 %	
@ Break	200 %	200 %	
Flexural Modulus			**D790A**
1% Secant	168,000 psi	1,157 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	1.2 ft.-lbf/in	6.2 kJ/m²	
@ 4 C	0.5 ft.-lbf/in	3.6 kJ/m²	
Hardness			**D785**
Rockwell R	84	84	
Vicat Softening Point	267.8 F	131 C	**D1525**
Deflection Temperature			**D648**
@ 66 psi (455 kPa)	176 F	80 C	
Haze, @ 23°C, 50-mil (1.3mm) plaque,			**D1003**
% Diffuse Transmittance	—	11.2	
Gloss Units, 60° angle	—	97.5	**D2457**

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

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