

AMERICOLENE® PPR12C-01

AMERICOLENE

Polypropylene Random Copolymer

AMERICOLENE® PPR12C-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 Properties¹

	Values English Units	Values SI Units	ASTM 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/m ²	
@ 4 C	0.5 ft.-lbf/in	3.6 kJ/m ²	
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

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