

AMERICOLENE® ARC55C-00



Polypropylene Random Copolymer (PPRC)

Americolene® ARC55C-00 is a clarified antistatic random copolymer for thin wall molding applications requiring very good mold filling capabilities, excellent clarity, fast cycle times and good stiffness-to-impact properties balance. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
<i>Typical Resin Properties for: ARC55C-00</i>			
Melt Flow Rate 230°C/2.16 kg	D1238	g/10 min.	55.0
Density	D792	g/cc	0.901
Injection Molded Sample			
Tensile Strength (2 in/min)	D638		
@ Yield		27.9 MPa	4,060 psi
@ Break		24.3 MPa	3,530 psi
Elongation (2 in/min)	D638		
@ Yield		12.5%	12.5%
@ Break		>800%	>800%
Flexural Modulus	D790A		
1% Secant		1,024 MPa	148,600 psi
Notched Izod Impact Strength	D256		
@ 23 C		4.0 ft-lbf/in	0.77 kJ/m ²
@ 4 C		2.1 ft-lbf/in	0.4 kJ/m ²
Hardness	D785		
Rockwell R		83	83
Vicat Softening Point	D1525	114 C	237 F
Deflection Temperature	D648		
@ 66 psi (455 kPa)		85 C	185 F
Haze, @ 23°C, 50-mil (1.3mm) plaque,	D1003		
% Diffuse Transmittance		16.5	16.5
Gloss Units, 60° angle	D2457	91	91

* MD / TD

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