



Polyintec® ARC55C-01

Polypropylene Random Copolymer (PPRC)

Product Description:

Polyintec® ARC55C-01 is a clarified antistatic random copolymer designed for thin wall molding applications. It offers very good mold filling capabilities, excellent clarity, fast cycle times, and a good balance of stiffness and impact properties. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Suggested Applications:

Thin-wall containers, Housewares, Lids, Consumer products.

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
Typical Resin Properties			
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) @ Yield	D638	MPa (psi)	27.9 (4060)
Tensile Strength (2 in/min) @ Break	D638	MPa (psi)	24.3 (3530)
Elongation (2 in/min) @ Yield	D638	%	12.5
Elongation (2 in/min) @ Break	D638	%	>800
Flexural Modulus (1% Secant)	D790A	MPa (psi)	1024 (148600)
Notched Izod Impact Strength @ 23°C	D256	ft-lbf/in (kJ/m ²)	4.0 (0.77)
Notched Izod Impact Strength @ 4°C	D256	ft-lbf/in (kJ/m ²)	2.1 (0.4)
Hardness (Rockwell R)	D785	-	83
Vicat Softening Point	D1525	°C (°F)	114 (237)
Deflection Temperature @ 66 psi (455 kPa)	D648	°C (°F)	85 (185)
Haze (@ 23°C, 50-mil (1.3mm) plaque)	D1003	%	16.5
Gloss Units (60° angle)	D2457	-	91

Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. Users should perform their own tests to determine product suitability. The information provided is, to the

best of our knowledge, reliable, but no warranty is made. Americorp's liability is limited to the purchase price.