

RAMOLENE

IN10

Random Copolymer - Clarified for Resistant Injection Molding

IN10 exhibits exceptionally high clarity in molded parts and produces molded parts with improved impact compared from homopolymer polypropylene. Complies with all applicable FDA regulations for food contact applications. Recommended for injection molding housewares, cassette cases, and other items calling for good impact, clarity. IN10 processes on conventional injection molding equipment with typical melt temperatures of 390-450°F (200-230°C).

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Resin Properties ⁽¹⁾

	<u>Typical Value / Units</u>	<u>ASTM Method</u>
Melt Index, g/10 min	10.00	D- 1238 Condition "L"
Density, g/cc	0.90	D-1505
Melting Point, ° F (C°)	293 (145)	DSC ⁽²⁾

Mechanical Properties ⁽¹⁾

Tensile, psi (M Pa)	4,240 (29.2)	D-638
Elongation, %	12	D-638
Tensile Modulus, psi (M Pa)	160,000 (1,105)	D-638
Flexural Modulus, psi (M pa)	141,000 (970)	D-790
Izod Impact @73°F	D-256A	
Notched -ft.lb/in. (J/m)	1.38 (73.7)	
Unnotched - ft.lb/in (J/m)	No Breaks (No Breaks)	
Drop Impat, 0.125" plaques, in-lb (J)	165 (18.6)	API ⁽³⁾
Hardness		
Shore D	77	D-1706

Thermal Properties ⁽¹⁾

Heat Deflection		D-648
°F @ 66psi	165	
°C @ 4.64 kg/cm ²	74	

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.

(3) ASR 2004-0101

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