


TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3847MR

Technical Data Sheet
Polypropylene – Random Copolymer
Produced in the United States

Description

Polypropylene 3847MR offers excellent processability, clarity, gloss, toughness and resistance to typical levels of gamma radiation used to sterilize polypropylene.

Easy Flow: 3847MR exhibits exceptionally easy flow characteristics.

Regulatory: 3847MR has passed USP Class VI testing and complies with all applicable FDA regulations for food contact applications.

Applications: 3847MR is recommended for injection molding laboratory and medical applications; however, due to its unique combination of properties, other applications may exist.

Processing: 3847MR processes on conventional injection molding equipment with typical melt temperatures of 390°F-450°F (200°C-232°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	45
Mechanical Properties			
Tensile	D-638	psi (MPa)	4,700 (32)
Elongation	D-638	%	9
Flexural Modulus	D-790 ⁽³⁾	psi (MPa)	171,000 (1,180)
Izod Impact @ 73°F	D-256A	ft.-lbs/in. (J/m)	0.6 (32) No Break (No Break)
Notched			
Unnotched			
Thermal Properties ⁽¹⁾⁽²⁾			
Melting Point	DSC	°F (°C)	315 (157)
Other Physical Properties			
Density	D-1505	g/cc	0.900

- (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) Reported as 2% secant.

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