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 Strength @ Yield	D-638	psi (MPa)	4,700 (32)
Tensile Elongation @ Yield	D-638	%	9
Flexural Modulus	D-790(3)	psi (MPa)	171,000 (1,180)
Izod Impact @ 73°F Notched Unnotched	D-256A	ft-lb/in (J/m)	 0.6 (32) No Break (No Break)
Thermal Properties(1)			
Melting Point	DSC(2)	°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.

Rev: Feb 2026

TOTALENERGIES PETROCHEMICALS & REFINING USA, INC.
POLYMERS AMERICAS
1201 Louisiana Street
Suite 1800
Houston, TX 77002
www.polymers.totalenergies.com

TECHNICAL CENTER
P.O. Box 1200
Deer Park, Texas 77536
Phone: 281-884-7500

All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.

Polypropylene