


TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3944MR

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

Description

Polypropylene 3944MR offers good processability, excellent clarity, good touchness and good resistance to typical levels of gamma radiation used to sterilize polypropylene.

Easy Flow: 3944MR exhibits exceptionally easy flow characteristics.

Recommended Applications: 3944MR is recommended for injection molding laboratory and medical applications; however, due to its unique combination of properties, other applications may exist.

Processing: 3944MR resin processes on conventional injection molding equipment with typical melt temperatures of 390°F-450°F (200°C-230°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	60
Mechanical Properties			
Tensile	ASTM D-638	psi (MPa)	5,000 (34)
Elongation	ASTM D-638	%	7.5
Flexural Modulus	ASTM D-790	psi (MPa)	225,000 (1,550)
Izod Impact Notched @ 73°F	ASTM D-256 ^a	ft.-lbs/in. (J/m)	0.4 (21)
Thermal Properties⁽¹⁾⁽²⁾			
Melting Point	DSC	°F (°C)	320 (160)
Heat Deflection Temperature	ASTM D-648	°F (°C)	228 (109)
Other Physical Properties			
Density	D-1505	g/cc	0.9

(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.

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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.