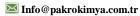
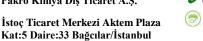
Polypropylene

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Polypropylene 3944MR



## **Technical Data Sheet**

Polypropylene – Random Copolymer **Produced in the United States** 

TotalEnergies Petrochemicals & Refining USA, Inc.

Polymers Americas 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 <sup>a</sup> | ftlbs/in. (J/m) | 0.4 (21)        |
| Thermal Properties <sup>(1)(2)</sup> | '                       |                 |                 |
| 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             |

<sup>(1)</sup> 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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