



Designation: F 648 – 00^{ε1}

Standard Specification for Ultra-High-Molecular-Weight Polyethylene Powder and Fabricated Form for Surgical Implants¹

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^{ε1} NOTE—Editorial changes were made throughout in June 2003.

1. Scope

1.1 This specification covers Ultra-High Molecular Weight Polyethylene powder (UHMWPE) and fabricated forms intended for use in surgical implants.

1.2 The requirements of this specification apply to UHMWPE in two forms. One is virgin polymer powder (Section 4). The second is any form fabricated from this powder from which a finished product is subsequently produced (Section 5). This specification addresses material characteristics and does not apply to the packaged and sterilized finished implant.

1.3 The provisions of Specification D 4020 apply. Special requirements detailed in this specification are added to describe material which will be used in surgical implants.

¹ This specification is under the jurisdiction of ASTM Committee F04 on Medical and Surgical Materials and Devices and is the direct responsibility of Subcommittee F04.11 on Polymeric material.

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