



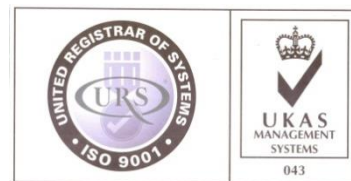
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**UHMW PE (Ultra High Molecular Weight Polyethylene)**

**Material Specification  
(Typical Properties)**

Technical

| Property                                     | Method                | Units | Specification       |
|--|-----------------------|-------|---------------------|
| Moulding compound pressed                    | DIN EN ISO 527-2      |       | PE, QN, 33 G 000    |
| Pressed to moulding compound standard        | DIN EN ISO 1872, Pt.1 |       |                     |
| Density                                      | ISO 1183              | g/cm3 | 0.93                |
| Yield stress                                 | DIN EN ISO 527        | MPa   | 21                  |
| Elongation at Yield                          | DIN EN ISO 527        | %     | 11                  |
| Tensile modulus of elasticity                | DIN EN ISO            | MPa   | 700                 |
| Impact Strength                              | DIN EN ISO            | Kj/m2 | Without break       |
| Ball indentation hardness                    | DIN EN ISO 2039-1     | MPa   | 38                  |
| Mean coefficient of linear thermal expansion | DIN 53752             | K-1   | 1,8 x 10-4          |
| Vicat B                                      | DIN EN ISO 179-1eU    |       | 82                  |
| Fire Behaviour                               | DIN 4102 B2           |       | Normal flammability |
| Dielectric strength                          | DIN IEC 60243-1       | kV/mm | 44                  |
| Surface resistivity                          | DIN IEC 60093         | Ohm   | 74>1014             |
| Temperature (min)                            |                       | °C    | -260                |
| Temperature (max)                            |                       | °C    | +80                 |
| Physiological safety in accordance with BfR  |                       |       | Yes                 |

Disclaimer. These figures are typical values for the material and do not represent a product specification. Properties will vary depending on source of raw material, method of processing, physical form of product, direction of measurement etc.