



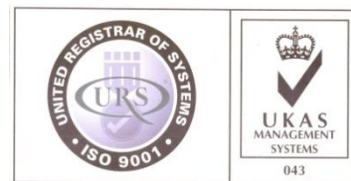
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URS is a member of Registrar of Standards (Holdings) Ltd.

HMW PE (High Molecular Weight Polyethylene)

**Material Specification
 (Typical Properties)**

Technical

Property	Method	Units	Specification
Modulus of elasticity (tensile test)	DIN 53457	MPa	700
Tensile strength	DIN EN ISO 527-2	MPa	32
Tensile strength at yield	DIN 53455	MPa	>28
Elongation at yield	DIN 53455	%	8
Elongation at break	DIN 53455	%	>50
Impact strength (Charpy)	DIN 53455	kJ/m ²	No break
Notched impact strength (Charpy)	DIN 53455	kJ/m ²	No break
Ball indentation hardness	DIN 53456	MPa	38

Electrical

Property	Method	Units	Specification
Specific surface resistance	DIN 53482	Ohms	10 ¹²
Specific volume resistance	DIN 53482	Ohms.cm	10 ¹⁴

Thermal

Property	Method	Units	Specification
Service temperature	DIN 53476	Ohms	DIN 8075

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.