

## Braskem UTEC® 4041 Ultra High Molecular Weight Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

### Material Notes:

Applications which require a good combination between impact and wear resistance - use of pigments and/or additives - technical and porous parts, filters, compression molded sheets. Information provided by Braskem.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-UTEC-4041-Ultra-High-Molecular-Weight-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-UTEC-4041-Ultra-High-Molecular-Weight-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 g/cc	0.930 g/cc	ASTM D792/ISO 1183
Bulk Density	0.450 g/cc	0.0163 lb/in <sup>3</sup>	ASTM D-1895
Particle Size	130 µm	130 µm	Average; D50; ASTM D1921
	150 µm	150 µm	Average; D50; Laser scattering; ISO 13320-1
Viscosity Measurement	19	19	Intrinsic in dl/g; ASTM D4020
Molecular Weight	4.50e+6 g/mol	4.50e+6 g/mol	Braskem

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240/ISO 868
Tensile Strength at Break	>= 30.0 MPa	>= 4350 psi	ASTM D638
Charpy Impact, Notched	>= 13.0 J/cm <sup>2</sup>	>= 61.9 ft-lb/in <sup>2</sup>	Determined with double-notched specimens; ISO 11542-2
Coefficient of Friction, Dynamic	0.090	0.090	ASTM D1894
Coefficient of Friction, Static	0.10	0.10	ASTM D-1894
Abrasion	91	91	ISO 15527 reference set as 100); Braskem (sand slurry)

Descriptive Properties	Value	Comments
Elongation Stress	0.28 MPa	ISO 11542-2; (150/10)

## Contact Songhan Plastic Technology Co.,Ltd.

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