

Braskem UTEC® 5040 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 high wear resistance - technical parts, RAM extruded and compression molded sheets, rods and profiles. Information provided by Braskem.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-UTEC-5040-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 ³	ASTM D-1895
Particle Size	190 µm	190 µm	Average; D50; ASTM D1921
	230 µm	230 µm	Average; D50; Laser scattering; ISO 13320-1
Viscosity Measurement	24	24	Intrinsic in dl/g; ASTM D4020
Molecular Weight	6.00e+6 g/mol	6.00e+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	>= 10.0 J/cm ²	>= 47.6 ft-lb/in ²	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	82	82	ISO 15527 reference set as 100); Braskem (sand slurry)

Descriptive Properties	Value	Comments
Elongation Stress	0.41 MPa	ISO 11542-2; (150/10)

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