

Braskem UTEC® 3041 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 impact resistance and use of pigments and/or additives - filters, technical and porous parts, compression molded sheets. Information provided by Braskem.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-UTEC-3041-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	130 µm	130 µm	Average; D50; ASTM D1921
	150 µm	150 µm	Average; D50; Laser scattering; ISO 13320-1
Viscosity Measurement	14	14	Intrinsic in dl/g; ASTM D4020
Molecular Weight	3.00e+6 g/mol	3.00e+6 g/mol	Braskem

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240/ISO 868
	>= 57 @Time 15.0 sec	>= 57 @Time 0.00417 hour	ASTM D2240/ISO 868
Tensile Strength at Break	>= 30.0 MPa	>= 4350 psi	ASTM D638
Tensile Strength, Yield	>= 17.0 MPa	>= 2470 psi	ASTM D638/ISO 527
Elongation at Break	>= 350 %	>= 350 %	ASTM D638
	>= 400 %	>= 400 %	ISO 257
Charpy Impact, Notched	>= 18.0 J/cm ²	>= 85.7 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	25	25	(reference Stainless Steel SAE1020 = 100); Braskem (sand slurry)
	100	100	ISO 15527 reference set as 100); Braskem (sand slurry)

Descriptive Properties	Value	Comments
Elongation Stress	0.2 MPa	ISO 11542-2; (150/10)

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