

Braskem UTEC® 6541 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 highest wear resistance and the use of pigments and/or additives - technical parts, RAM extruded and/or compression molded sheets, rods and profiles. Information provided by Braskem.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-UTEC-6541-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
Viscosity Measurement	28	28	Intrinsic in dl/g; ASTM D4020
Molecular Weight	8.00e+6 g/mol	8.00e+6 g/mol	Braskem

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240/ISO 868
	59	59	ASTM D2240/ISO 868
	@Time 15.0 sec	@Time 0.00417 hour	
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	>= 300 %	>= 300 %	ASTM D638
	>= 350 %	>= 350 %	ISO 527
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	20	20	(reference Stainless Steel SAE1020 = 100); Braskem (sand slurry)
	76	76	ISO 15527 reference set as 100); Braskem (sand slurry)

Descriptive Properties	Value	Comments
Elongation Stress	0.49 MPa	ISO 11542-2; (150/10)

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China