

Braskem Idealis 500 High Molecular Weight Polyethylene Powder

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

Material Notes:

Braskem Idealis 500 is the only High Molecular Weight Polyethylene resin in powder form specially designed for the compression molding process; Applications range from food handling cutting boards and playground toys to technical parts. Information provided by Braskem.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-Idealis-500-High-Molecular-Weight-Polyethylene-Powder.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.951 g/cc	0.951 g/cc	ASTM D792
Particle Size	170 µm	170 µm	Average; Dp50; ASTM D1921
Viscosity Measurement	4.7	4.7	Intrinsic in dl/g; ASTM D4020
Molecular Weight	550000 g/mol	550000 g/mol	Braskem
Melt Flow	0.70 g/10 min @Load 21.6 kg, Temperature 190 °C	0.70 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63 @Time 15.0 sec	63 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	>= 30.0 MPa	>= 4350 psi	ASTM D638
Tensile Strength, Yield	>= 20.0 MPa	>= 2900 psi	ASTM D638
Charpy Impact, Notched	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	Determined with double-notched specimens; ISO 11542-2
Abrasion	80	80	Braskem (PE500 = 100)

Thermal Properties	Metric	English	Comments
Melting Point	136 °C	277 °F	ASTM D3418
Vicat Softening Point	80.0 °C @Load 5.10 kg	176 °F @Load 11.2 lb	ASTM D1525

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