

Braskem Idealis 500 Compression Molding High Molecular Weight Polyethylene

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. Its applications range from food handling, cutting boards, and playground toys to technical parts.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in ³	ASTM-D792
Apparent Bulk Density	0.450 g/cc	0.0163 lb/in ³	ASTM-D1895
Particle Size	170 µm	170 µm	Average, Dp50; ASTM-D1921
Viscosity Test	470 cm ³ /g	470 cm ³ /g	Intrinsic; ASTM-D4020
Molecular Weight	550000 g/mol	550000 g/mol	
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	63	15 sec; ASTM-D2240
Tensile Strength at Break	>= 30.0 MPa	>= 4350 psi	ASTM-D638 / ISO 527
Tensile Strength, Yield	>= 20.0 MPa	>= 2900 psi	ASTM-D638 / ISO 527
Elongation at Break	>= 500 %	>= 500 %	ASTM-D638 / ISO 527
Flexural Modulus	0.930 GPa	135 ksi	ASTM-D790
Charpy Impact, Notched	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	double-notched specimens (14° v-notch on both sides); ISO 11542-2
Sand Slurry	80	80	Sand slurry - Internal, reference 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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