Braskem PE IDEALIS500

High Molecular Weight Polyethylene

Braskem America Inc.

Message:

Description:

Braskem Idealis500 is the only High Molecular Weight Polyethylene resin in powder form specially designed for the compression molding process. Applications:

Applications range from food handling cutting boards and playground toys to technical parts.

General Information			
Features	Food Contact Acceptable		
	High Molecular Weight		
Uses	Non-specific Food Applications		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Powder		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm³	ASTM D792
Apparent Density	0.45	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	0.70	g/10 min	ASTM D1238
Average Molecular Weight	550000	g/mol	Internal Method
Average Particle Size ¹	170	μm	
Intrinsic Viscosity	4.7	dl/g	ASTM D4020
Abrasion Index ²	80		Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638, ISO 527-2
Yield	> 20.0	MPa	
Break	> 30.0	MPa	
Tensile Elongation (Break)	> 500	%	ASTM D638, ISO 527-2
Flexural Modulus	930	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³	> 50	kJ/m²	ISO 11542-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	80.0	°C	ASTM D1525 ⁴
Melting Temperature	136	°C	

NOTE	
1.	Dp50
2.	reference PE500 = 100
	Determined with double-notched
	specimens (14° v-notch on both
	sides) in accordance with ISO
3.	11542-2
4.	Loading 2 (50 N)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

