

CENTROPLAST BC Organic Thermoplastic

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic

Material Notes:

CENTROPLAST BC is made of CO2-neutral, sustainable raw-materials. CENTROPLAST has the characteristics of thermoplastics while being 100% recyclable and completely biodegradable by composting according to DIN EN 13432. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-BC-Organic-Thermoplastic.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.500 % @Temperature 23.0 °C	0.500 % @Temperature 73.4 °F	normal humidity; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	105 MPa	15200 psi	ISO 2039-1
Tensile Strength	22.7 MPa	3290 psi	5 mm/min; ISO 527-2
Elongation at Break	11.8 %	11.8 %	ISO 527-2
Tensile Modulus	2.74 GPa	397 ksi	ISO 527-2
Flexural Modulus	1.82 GPa	264 ksi	ISO 178
Charpy Impact Unnotched	5.80 J/cm ²	27.6 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	152 °C	306 °F	DSC, 10 K/m; ISO 3146
Maximum Service Temperature, Air	40.0 °C	104 °F	continuous
	58.0 °C	136 °F	short term
Deflection Temperature at 0.46 MPa (66 psi)	50.0 °C	122 °F	ISO 75-2
Vicat Softening Point	58.0 °C	136 °F	VST/B/50; ISO 306

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093

Descriptive Properties	Value	Comments
Color	White	
Food Compliance BfR:	Yes	
Food Compliance FDA	Yes	

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