

Kaneka PHBH Semi-Rigid Bio-based Polymer

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic

Material Notes:

A copolymer produced of 3-hydroxybutyrate and 3-hydroxyhexanoate produced by fermentation of plant oils. It has excellent biodegradability (under anaerobic, aerobic, aquatic, and compost conditions), hydrolytic stability, flexibility, and heat resistance. Information provided by Kaneka Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kaneka-PHBH-Semi-Rigid-Bio-based-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Vapor Transmission	80.0 - 120 g/m ² /day @Thickness 0.0600 mm	5.15 - 7.73 g/100 in ² /day @Thickness 0.00236 in	film; JIS Z0208
Oxygen Transmission	0.300 - 0.900 cc-mm/m ² -24hr-atm @Thickness 0.0600 mm	0.762 - 2.29 cc-mil/100 in ² -24hr-atm @Thickness 0.00236 in	film; JIS Z7126

Mechanical Properties	Metric	English	Comments
Tensile Strength	25.0 MPa	3630 psi	100 micron film; ASTM D882
Elongation at Break	331 %	331 %	100 micron film; ASTM D882
Tensile Modulus	0.665 GPa	96.5 ksi	100 micron film; ASTM D882
Flexural Modulus	0.900 GPa	131 ksi	ASTM D790
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Tear Strength	75.0 kN/m	428 pli	100 micron film; ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	136 Â°C	277 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	87.0 Â°C	189 Â°F	ASTM D48
Vicat Softening Point	104 Â°C @Load 1.02 kg	219 Â°F @Load 2.25 lb	
Glass Transition Temp, Tg	0.000 Â°C	32.0 Â°F	DSC

Optical Properties	Metric	English	Comments
Haze	27 %	27 %	film; ASTM D1003
	@Thickness 0.100 mm	@Thickness 0.00394 in	

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