

Kaneka PHBH 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, and heat resistance. Information provided by Kaneka Corporation.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 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	28.0 MPa	4060 psi	100 micron film; ASTM D882
Elongation at Break	26 %	26 %	100 micron film; ASTM D882
Tensile Modulus	1.24 GPa	180 ksi	100 micron film; ASTM D882
Flexural Modulus	1.53 GPa	222 ksi	ASTM D790
Izod Impact, Notched	0.330 J/cm	0.618 ft-lb/in	ASTM D256
Tear Strength	77.0 kN/m	439 pli	100 micron film; ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	142 Â°C	288 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	ASTM D48
Vicat Softening Point	117 Â°C @Load 1.02 kg	243 Â°F @Load 2.25 lb	
Glass Transition Temp, Tg	2.00 Â°C	35.6 Â°F	DSC

Optical Properties	Metric	English	Comments
Haze	40 % @Thickness 0.100 mm	40 % @Thickness 0.00394 in	film; ASTM D1003

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China