

Goodfellow Polyhydroxybutyrate/Polyhydroxyvalerate (PHB 88/PHV 12)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic

Material Notes:

See also PHB. PHB/PHV copolymers are used in preference to PHB homopolymer for general purposes (e.g. molding containers) in order to obtain a better balance of stiffness and toughness. PHV contents of 5 - 20% give a useful range of properties broadly similar to those of the polyolefins (the polyethylenes and polypropylene). They melt at lower temperatures than the homopolymer, giving a useful improvement in melt-processability. Their other properties are similar to those of PHB. They are being used for biodegradable containers (of which shampoo bottles are the most high-profile example) and other articles difficult to recycle e.g. disposable razors or medically contaminated articles. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-PolyhydroxybutyratePolyhydroxyvalerate-PHB-88PHV-12.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	
Elongation at Break	35 %	35 %	
Tensile Modulus	0.500 GPa	72.5 ksi	
Izod Impact, Unnotched	2.00 J/cm	3.75 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.40 J/g-°C	0.335 BTU/lb-°F	
Thermal Conductivity	0.150 W/m-K	1.04 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Constant	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Chemical Resistance - Alcohols	Fair	
Chemical Resistance - Alkalis	Poor	
Chemical Resistance - Dilute Acids	Fair	

Descriptive Properties Greases and Oils	Value	Comments
Resistance to Ultra-Violet	Fair	

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