

Chengdu Polyster PPHA p-Hydroxybenzoic Acid Polymer

Category : Polymer

Material Notes:

PPHA is difficult to manufacture and brittle as well as low mechanical strength, its compounds have a higher mechanical strength and can be injection moulded. It can work without oil and its performance is better than those of bronze bearing, which is lubricated by oiling through many pores. Good heat conduction and electric insulation. It has the highest coefficient of heat conduction in all kinds of plastics and the value is as 4-6 times as those of general plastics. PPHA can be manufactured through moulded forming, high-energy pressing, burning-weld and pressing of low temperature, spray-coating of plasma, spray-coating of flame. The major applications of PPHA contain lubricant pistol ring of non-oil, bearing, rail, pad, sealed ring and guided ring, which are used at high-temperature and high-abrasion environment. Information provided by Chengdu Polyster Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chengdu-Polyster-PPHA-p-Hydroxybenzoic-Acid-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	
Water Absorption	0.020 %	0.020 %	
Solubility in Water	0.00 %	0.00 %	
Crystallinity	90 %	90 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	50.0 MPa	7250 psi	
Compressive Strength	>= 100 MPa	>= 14500 psi	
Coefficient of Friction	0.16 - 0.32	0.16 - 0.32	
Coefficient of Friction, Static	0.20 - 0.30	0.20 - 0.30	

Thermal Properties	Metric	English	Comments
Crystallization Temperature	330 - 380 °C	626 - 716 °F	
Decomposition Temperature	<= 530 °C	<= 986 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+17 ohm-cm	1.20e+17 ohm-cm	
Dielectric Strength	26.0 kV/mm	660 kV/in	

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