



**POLINTEK**

**Product Data Sheets  
POLINTEK  
Synthetic Sleeper**



## GENERAL INFORMATION

**Product Description :**

Any component systems consisting of polymers and reinforced incorporated with the lamination. Once fully cured, the system provides excellent protection from the effects of physical, mechanical, electrical and chemical attack.

**Application Areas :**

Product is ideally suited for application to the following:

- Bridge Railway
- Track Railway

## APPLICATION INFORMATION

**Working Life**

Applicable to all weather.

**Size**

220 mm x 180 mm x 1800 mm  
220 mm x 180 mm x 2000 mm  
220 mm x 180 mm x 4000 mm  
220 mm x 180 mm x customized long

**Weigh**

Will vary accordance to the size.

**Physical**

Easy to grind, cut and drill.  
Repairable using the similar material.

**Components Appearance**

dop to glossy Color dark  
brown Density 1.2 - 1.9  
g/cm<sup>3</sup>

*The above application information serves as introductory guide only. For full application details including the recommended application procedure/technique, refer to the POLINTEK IFU which is enclosed with each packaged product.*

### **BENDING**

When tested in accordance with JIS E 1203 : 2007 :  
117,26 ± 7,14 N/mm<sup>2</sup>

### **YOUNG MODULUS**

When tested in accordance with JIS E 1203 : 2007 :  
6.288,62 ± 193,35 N/mm<sup>2</sup>

### **WITHSTAND BENDING LOAD**

When tested in accordance with JIS E 1203 : 2007 :  
242,5 kN

### **LONGITUDINAL COMPRESSIVE**

When tested in accordance with JIS E 1203 : 2007 :  
75,64 ± 11,93 N/mm<sup>2</sup>

### **SHEARING**

When tested in accordance with JIS E 1203 : 2007 :  
12,52 N/mm<sup>2</sup>

### **BREAKDOWN VOLTAGE**

When tested in accordance with JIS E 1203 : 2007 :  
38,16 kV

### **INSULATION RESISTANCE**

When tested in accordance with JIS E 1203 : 2007 :  
2,99 x 10<sup>13</sup> Ω

### **PULLING**

When tested in accordance with JIS E 1203 : 2007 :  
100 kN

When tested in accordance with JIS E 1203 : 2007 :  
5,57 ± 2,88 mg/ cm<sup>2</sup>

### **CHEMICAL RESISTANCE**

Demonstrates excellent chemical resistance and resistant to salt solutions, hydrocarbons and mineral oils.

### **SELF LIFE**

All components will have a shelf life of at least 20 years.

### **APPROVALS / ACCEPTANCE**

The material has received recognition from local organizations

### **ADVANTAGES**

1. 20 years life time
2. Chemical & UV Resistance
3. Easy Installation and Repairable
4. Heavy Duty
5. Design Customize
6. Substitute Wood
7. Green Product
8. Price Less than Imported Products

## WARRANTY

POLINTEK guarantees this product will meet the performance claims stated herein when material is stored and used as instructed in the POLINTEK Information For Use leaflet. POLINTEK further guarantees that all its products are carefully manufactured to ensure the highest quality possible and tested strictly in accordance with universally recognized standards JIS E 1203 : 2007. Since POLINTEK has no control over the use of the product described herein, no warranty for any application can be given.

## AVAILABILITY AND COST

POLINTEK Synthetic Sleeper is available from a network of POLINTEK Distributors throughout the world for prompt delivery to the application site. For information, consult the POLINTEK Distributor in your area.

## HEALTH AND SAFETY

Prior to using this material, please consult the relevant Material Safety Data Sheets.

## MANUFACTURER

PT. DARTA MCKUADRAT INDUSTRI  
Tangerang INDONESIA

## TECHNICAL SERVICE

Complete technical assistance is available and includes fully trained Technical Consultants, technical service personnel and fully staffed research, development and quality control laboratories.

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact PT. DARTA MCKUADRAT INDUSTRI to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by PT. DARTA MCKUADRAT INDUSTRI, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose. Nothing in the foregoing statement shall exclude or limit any liability of PT. DARTA MCKUADRAT INDUSTRI to the extent such liability cannot by law be excluded or limited.

