

## TransThane 'CE'

### Conductive Elastomer System



#### Introduction

Demanding functional requirements that preclude the use of traditional thermoplastic elastomers and cross linked rubbers are suitable applications for BMP's **TransThane** media transport elastomer system. Where abrasion and temperature resistance is key, the versatility of urethane elastomers is more suited to such applications.

BMP's range of **TransThane** paper transport rollers are manufactured from a hybrid, cross linked, cast polyurethane system. BMP's **TransThane** rollers are highly abrasion and chemical resistant, exhibit exceptional dimensional stability at extreme levels of temperature and humidity. BMP has now developed a unique range of electrically conductive urethane systems for use in several industrial applications including paper/media transport.

Existing conductive elastomer systems usually rely on fillers of typically carbon black to achieve desired levels of conductivity. Traditionally, carbon black is mixed with EPDM systems in quantities between 1– 5% depending on the level of conductivity required. However, the introduction of conductive fillers into cross linked rubber systems usually results in a lowering of abrasion and chemical resistance and in many cases reduces in service life cycles.

BMP's **TransThane 'CE'** is a unique urethane elastomer system that achieves comparative EPDM levels of conductivity without using fillers of carbon black. Utilising a proprietary method of polymer manufacture developed by BMP, TransThane 'CE' retains high abrasion and chemical resistance characteristics whilst offering a wide range of conductivity, without compromising performance and service life. The advantages of **TransThane 'CE'** compared to traditional conductive EPDM products can be summarised as follows;

- Excellent abrasion and tear resistance
- Exceptional dimensional accuracy
- Highly stable at elevated temperatures and humidity levels
- Accurate hardness within a band of +/- 3 points (Shore A)
- Superior chemical & ozone resistance

For further information on this and other unique products, visit BMP's web site or call the telephone number below.



Fluid Delivery



Filtration



Media Transport



Heat Resistance



Abrasion



Sealing



Absorption



Cleaning