



TECHNICAL DATA SHEET

Ethylene propylene metal detectable rubber compound ref: E80BlueFDAMD/CC

MATERIAL PROPERTIES

DESCRIPTION

This is an FDA and USP class VI compliant, peroxide cured elastomer.

The inclusion of ferrites in the compound make it metal and X-ray detectable¹, so that any fragments of rubber produced, for example by abrasion or breakdown of seals, will be identified by the standard metal detection software in use on food and pharmaceutical production lines. Many processing operations require HACCP² program which stipulate that all parts have to be metal detectable and X-ray detectable.

Outstanding resistance to water and steam. Good chemical resistance, but not suitable for mineral oils

1. The industry standard suggests that particles greater than 2mm are detected.

2. HACCP – Hazard Analysis Critical Control Point

PROPERTIES

- Metal and X-Ray detectable
- Reduces the risk of rubber materials migrating into the finished product.
- Compliant with HACCP programs
- Outstanding water and steam resistance
- Good low temperature flexibility
- Good ozone and weathering resistance
- Good chemical resistance, but not suitable for use with mineral oils
- ADI Free

Property	ASTM	ISO	Typical Value
Material Type	EPDM	EPDM	
Colour			Blue
Hardness (°ShA)	D1415	ISO7619	79
Tensile Strength (MPa)	D412	ISO37	6.4
Elongation at break (%)	D412	ISO37	173
Modulus at 100%		ISO37	5.3
Compression set (%) (22h@100°C)		ISO815	13

SAFETY INFORMATION

Detailed Material Safety Data Sheets can be obtained on request

NOTES:

Components made from this compound need to be thoroughly cleaned before use. This information is to the best of our knowledge accurate and reliable. However, Advanced Couplings Ltd makes no warranty, expressed or implied that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life. Therefore a regular program of inspection and replacement is strongly recommended.

The material properties above should not be used for specification purposes.

Store in accordance with the ARP5316 specification.