



## Antimicrobial - High Consistency Silicone Rubber (HCR)

### Characteristics

Vulcanised articles manufactured from 'biosil' antimicrobial silicone rubber compounds, exhibit a unique combination of characteristics and properties. The grades have been tested in accordance with ISO 22196: 2007, against both MRSA and E.coli over two time periods and have been found to be >=99% efficacious. They are also noted for good flexibility, excellent mechanical properties and very good processing characteristics. The material is naturally transparent, but can easily be pigmented.

### Product data

**Material Reference:** Biosil

- Special Features:**
- Temperature range from -55°C to 200°C
  - Good antimicrobial activity after testing in accordance with: ISO 22196: 2007 (>=99% efficacious against both MRSA and E.coli)
  - Good blend of physical properties
  - Can be Peroxide or Platinum catalysed

**Colour:** Translucent

### Safety Information

*Detailed safety specific information can be obtained from the Material Safety Data Sheets (MSDS), which are available upon request.*

### Physical Properties

Test	Standard	Units	Typical Values
Density	ISO 2781: 2008	g/cm <sup>3</sup>	1.10 – 1.20
Hardness	ISO 7619-1: 2010	SHORE °A	30 – 80
Tensile Strength	ISO 37: 2005	MPa	7 – 12
Elongation @ Break	ISO 37: 2005	%	350 – 820
Tear Strength	ISO 34:2004	KN/m	15 – 30
Rebound Resilience	DIN 53 512	%	52 – 60
Compression Set: (22Hrs @ 175°C)	ISO 815-1: 2008	%	10 - 30

### Typical Cure Conditions

Press-cure	5 minutes @ 160°C
Post-cure	4 hours @ 200°C
Catalyst	Platinum or Peroxide

*This data is obtained from test pieces moulded in the laboratory and are intended as a guide. They should not be used in preparing specifications.*

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