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 –55ºC to 200ºC
- 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 form the Material Safety Data Sheets (MSDS), which are available upon request.

Physical Properties

Test	Standard	Units	Typical Values
Density	ISO 2781: 2008	g/cm³	1.10 – 1.20
Hardness	ISO 7619-1: 2010	SHORE ºA	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 @ 175ºC)	ISO 815-1: 2008	%	10 - 30

Typical Cure Conditions

Press-cure	5 minutes @ 160ºC
Post-cure	4 hours @ 200ºC
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.