

ELASTOMER MF775E CR

February 2006

TECHNICAL DATA SHEET

DESCRIPTION

Silicone Rubber Compound, vulcanising on heating.

SPECIAL PROPERTIES

Stable over a range of temperatures -55°C to $+250^{\circ}\text{C}$

No refreshing except after prolonged storage
No post cure
Fire retardant
Low smoke emission
Low toxic gas emission

CHARACTERISTICS

Type (AFNOR T 40002)	MVQ
Specific gravity at 25°C , approx.	1.28
Natural Colour	Cream/Off White

PROPERTIES AFTER PROCESSING

1. Mechanical properties

1.1 No post curing	
Shore A hardness, approx.	68
Tensile strength, MPa, approx.	9.0
Elongation at break, %, approx.	270
Tear strength, kN/m, approx.	15
Rebound resilience, %, approx.	47
Linear shrinkage, %, approx.	1.8

2. Heat stability

2.1 Mechanical properties after heat ageing in hot air after 10 days at 200°C	
Shore A hardness, approx	76
Tensile Strength, Mpa, approx	7.3
Elongation, %, approx	200
2.2 Mechanical properties after heat ageing in hot air after 7 days at 250°C	
Shore A hardness, approx	77
Tensile Strength, Mpa, approx	5.9
Elongation, %, approx	130

3. Dielectrical properties

Dielectric Strength, (1mm), kV/mm, approx	28
Dielectric Strength, (2mm), kV/mm, approx	21
Dielectric Constant at 1 MHz, approx	5.4
Dielectric dissipation factor at 1 MHz, approx	4.4×10^{-3}
Volume Resistivity, ohm.cm, approx	4.2×10^{15}

4. Fire resistance, opacity and toxicity of fumes

4.1 Fire resistance – UL94 V0 at 3mm, UL94 V1 at 2mm.

4.2 Limit oxygen index – 35% approx.

4.3 BS6853 – Classification Category Ia (for tables 7 & 8)

Temperature Index (FT)	341°C
Smoke Density (Ao max)	0.0162
Toxic Fume Analysis (R)	0.40

APPLICATIONS

Manufacture of fire retardant seals and gaskets for mass transportation.

PACKAGING

ELASTOMER MF775E CR is delivered in 25 kg cardboard boxes or 500 kg cardboard containers.

STORAGE AND SHELF LIFE

ELASTOMER MF775E CR may be stored in its original unopened packaging at ambient temperature for up to 3 months from the date of manufacture marked clearly on the packaging. Past this date, Bluestar Silicones no longer guarantees that the product meets the sales specification. Store in a closed container when not in use and keep cool. Keep the product away from heat and flames.

SAFETY

Consult the Safety Data Sheet for **ELASTOMER MF775E CR**.

WARNING TO USERS

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through use of our products.

BLUESTAR SILICONES SAS GUARANTEES THAT ITS PRODUCTS COMPLY WITH ITS SALES SPECIFICATIONS.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations.

Users are requested to check that they are in possession of the latest version of this document and **BLUESTAR SILICONES SAS** is at their disposal to supply any additional information.