

Description

Heat cured FR8775 is a silicone rubber which cures after the addition of a vulcanising agent (chosen as a function of the production process). FR8775 is available in hardness 75 shore A. The FR8775 is specially designed to manufacture rubber parts for fire resistance applications.

Availability

Mouldings, Profile Extrusions, Sheeting, Coils

Applications

Production of profiles (doors, windows, walls) and panels used in rolling stocks, and any flexible moulded articles which need to combine high fire performances with low smoke emissions.

Special Properties

- Easy processing
- Good heat stability up to 200°C
- Excellent fire resistance
- LSFOH: Low smoke free of halogen
- Non-toxic and non-corrosive smokes
- Tested according to EN45545 part 2 (fire protection of railway vehicles)

Mechanical Properties

| PROPERTY | TYPICAL VALUE |
|--|------------------------|
| Specific gravity (at 25°C, approx.) | 1.28 |
| Shore A Hardness (approx.) | 73 |
| Tensile strength (MPa approx.) | 10.2 |
| Elongation at break (% , approx.) | 320 |
| Tear strength (kN/m, approx.) | 19 |
| Volume resistivity (IEC 60093 Ohm.cm, approx.) | 8.1 x 10 ¹⁵ |
| Dielectric constant (IEC 60250, at 1 MHz, approx.) | 3.0 |
| Dielectric dissipation factor (IEC 60250, at 1 MHz, approx.) | 3 x 10 ⁻³ |

Fire Resistance

| CLASSIFICATION | TYPICAL VALUE |
|-----------------|---------------------|
| IEC 60695-11-10 | V0 |
| EN 45545 Part 2 | R1 HL3 R7 HL3 |
| BS 6853 | Category 1A Table 7 |

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any particular application. All data relating to suitable uses and descriptions information concerning our products are compiled from research and are believed to be reliable, but are provided for guidance purposes only. The company holds no legal or contractual responsibility for information supplied.