



RAILSIL 791/70 - Heat Cured Silicone Rubber (HCR)

Characteristics

Vulcanised articles manufactured from this silicone compound exhibit a unique combination of characteristics. They are noted for their excellent flame retardant properties, coupled with low smoke and low toxicity ratings making the material ideal for railway rolling stock applications.

Product data

Material Reference: Railsil 791/70

- Special Features:**
- Temperature range from –60°C to 250°C
 - Good blend of physical properties
 - Meets CEN/TS 45545-2 HL3*
 - Meets BS 6853 Cat 1a*
 - Meets NF F-16-101 Categories F1 & I2*
 - Meets DIN 5510-2*
 - Meets LUL 1-085 A2 Table 4*
 - Fire resistance – UL 94-V0 (3mm)*

Colour: RAL 9005 Jet Black

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 ³	1.24
Hardness	ISO 7619-1: 2008	Shore °A	72
Tensile Strength	ISO 37: 2005	MPa	8.00
Elongation @ Break	ISO 37: 2005	%	400
Tear Strength	ISO 34: 2004	kN/m	24
Compression set: 22 hours @ 175 °C	ISO 815-1: 2008	%	28

Typical Cure Conditions

Press-cure	6 minutes @ 115 °C
Post-cure	4 hours @ 200 °C
Catalyst type	2,4 DCLBP

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

* Full test reports available on request.

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