

Specification Sheet / 01

A335 General Purpose Silicone Rubber Sheet



ISO9001, ISO14001, ISO45001
Certificate Ref: 11738

Property	Average Value(s)
Temperature Range	-60 °C - +230 °C
Product Form	Continuous solid sheeting
Applications	The general purpose range was specifically designed as a calendared grade for producing continuous solid sheeting. This is primarily used for belting and sheeting
Flammability characteristics	The products have a Limited Oxygen Index (LOI) of 24% (BS 2872 part i) and comply with the following flammability specification: FAR 25.853 (a)(1)(iv) and (a)(1)(v) horizontal flame tests CAA specifications 8 issue 2 (2.2)(c) and (d) horizontal flammability tests

Thermal Properties

Property	Typical Values	Test Method
Thermal Conductivity	0.86 Kjm ⁻¹ hr ⁻¹ K ⁻¹ (0.24 Wm ⁻¹ K)	VDE 0304
Brittle Point	-80	ASTM D 746

Property	Average Value(s)
Environmental Resistance	the products have excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmetic radiation, radiation and weathering in general. Typical radiation resistance is greater than 10 ⁵ grays (greater than 10 ⁷ rads).
Pigmentability	The products are available in a full range of standard colours, including translucent, and can be colour matched to customer requirements.

Electrical Properties

Property	Typical Figures	Test Method
Dialectric strength (KV/mm)	23	VDE0303
Dialectric constant	2.9	VDE0303
Dissipation factor @ 50 Hz (tan delta)	3 x 10E-4	VDE0303
Volume resistance (Ohm.cm)	3 x 10E15	VDE0303
Power factor	1.8 x 10E ⁻³	ASTM D 150

Property	Average Value(s)
Chemical Composition	This range of polydimethylsiloxane have been cross-linked with an organic peroxide. They contain a high performance heat stability additive, small quantities of ground quartz filler and a pigment, if required. These products can all be processed to remove

Property	GP40° Specification Limits	GP40° Typical value	Test Method
Shore A	40° ± 5°	42	BS 906 Part A26
Tensile Strength (MPa)	4.0 min	6.5	BS 903 Part A2
Tear Strength (N/mm)	8 min	15	BS 903 Part A3 Cutter type C

Specification Sheet / 02

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Elongation at break	300% min	440%	BS 903 Part 2
Compression Set	35% Max	30%	BS 903 Part A6

<i>Property</i>	<i>GP50° Specification Limits</i>	<i>GP50° Typical value</i>	<i>Test Method</i>
Shore A	50° ± 5°	50	BS 906 Part A26
Tensile Strength (MPa)	5.5 min	8	BS 903 Part A2
Tear Strength (N/mm)	10 min	11.5	BS 903 Part A3 Cutter type C
Elongation at break	250% min	380%	BS 903 Part 2
Compression Set	30% Max	28%	BS 903 Part A6

<i>Property</i>	<i>GP60° Specification Limits</i>	<i>GP60° Typical value</i>	<i>Test Method</i>
Shore A	60° ± 5°	60	BS 906 Part A26
Tensile Strength (MPa)	5.5 min	9	BS 903 Part A2
Tear Strength (N/mm)	12.5 min	13	BS 903 Part A3 Cutter type C
Elongation at break	250% min	320%	BS 903 Part 2
Compression Set	30% Max	26%	BS 903 Part A6

<i>Property</i>	<i>GP70° Specification Limits</i>	<i>GP70° Typical value</i>	<i>Test Method</i>
Shore A	70° ± 5°	70	BS 906 Part A26
Tensile Strength (MPa)	12.5 min	12	BS 903 Part A2
Tear Strength (N/mm)	8 min	15	BS 903 Part A3 Cutter type C
Elongation at break	200% min	305%	BS 903 Part 2
Compression Set	30% Max	20%	BS 903 Part A6

<i>Change Control Date</i>	<i>Change</i>
26/07/2013	Created

The above figures are average values.
We recommend that you examine any material you select to ensure its suitability for your application.
Tolerance(s) applied in accordance with ASG specification No W1007 (<https://bit.ly/3nKm6Hj>) unless otherwise stated.
Our standard terms and conditions of trading (<https://bit.ly/3b3mThw>) apply at all times.

