

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 calandared 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
Regulatory Compliance	Fully compliant with FDA 177.2600 and EC 1935/2004, ensuring suitability for direct food-contact applications

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	SR40° Specification Limits	SR40° Typical value	Test Method
Shore A	40° ± 5°	42	DIN ISO 7619-1
Tensile Strength	1300 (PSI)	9.00 Mpa	ISO 37 type 2
Tear Strength	130 lb./in.	23.0 N/mm	ASTM D624 die B

Specification Sheet / 02

A335 General Purpose Silicone Rubber Sheet



ISO9001, ISO14001, ISO45001
Certificate Ref: 11735

Elongation to Failure	.	525%	ISO 37 type 2
Compression Set 24 Hrs @ 150°C	.	25%	DIN/ISO 815 type B
Compression Set 22 Hrs @ 300°F	.	22%	ASTM D395 method B type 2

Property	SR50° Specification Limits	SR50° Typical value	Test Method
Shore A	50° ± 5°	50	DIN ISO 7619-1
Tensile Strength	1300 (PSI)	9 Mpa	ISO 37 type 2
Tear Strength	130 Lb./in.	23 N/mm	ASTM D624 die B
Elongation to Failure	.	450%	ISO 37 type 2
Compression Set 24 Hrs @ 150°C	.	15%	DIN/ISO 815 type B
Compression Set 22 Hrs @ 300°F	.	16%	ASTM D395 method B type 2

Property	SR60° Specification Limits	SR60° Typical value	Test Method
Shore A	60° ± 5°	60	DIN ISO 7619-1
Tensile Strength	1450 (PSI)	10.0 Mpa	ISO 37 type 2
Tear Strength	100 lb./in.	18 N/mm	ASTM D624 die B
Elongation at break	.	400%	ISO 37 type 2
Compression Set 24 Hrs @ 150°C	.	13%	DIN/ISO 815 type B
Compression Set 22 Hrs @ 300°F	.	10%	ASTM D395 method B type 2

Property	SR70° Specification Limits	SR70° Typical value	Test Method
Shore A	70° ± 5°	70	DIN ISO 7619-1
Tensile Strength	1450 (PSI)	10.0 Mpa	ISO 37 type 2
Tear Strength	115 lb./in.	20 N/mm	ASTM D624 die B
Elongation at break	.	320%	ISO 37 type 2
Compression Set 24 Hrs @ 150°C	.	9%	DIN/ISO 815 type B
Compression Set 22 Hrs @ 300°F	.	10%	ASTM D395 method B type 2

Change Control Date	Change
26/07/2013	Created
19/08/2024	Updated



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.

