

DATA SHEET

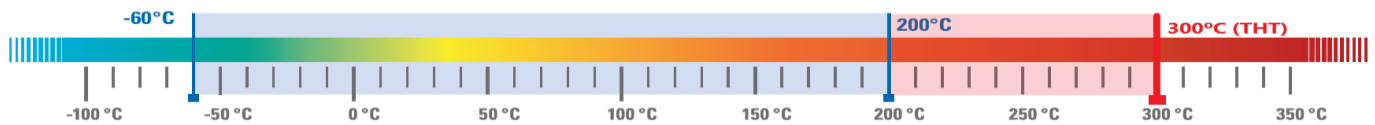
HARD SILICONE

Silicone has high transparency, versatility and excellent behavior in various physical and chemical media, and can be transformed into multiple production processes such as injection, compression molding, extrusion, autoclaving, casting, etc.

Silicone rubbers have excellent behavior and stability from -60°C to + 200°C, and our THT silicones can work up to + 300°C in dry heat.

GENERAL PROPERTIES

- High resistance to high and low temperature.
- Longest-lived of all rubbers.
- Good thermal and electrical insulator.
- Resistant to weathering, UV and gamma rays.
- Does not develop bacteriological growth.
- Flexible, elastic and compressible material.



TECHNICAL DATA:

* All our hardnesses are available in THT grade (+ 300°C)

	30°	40°	50°	60°	70°	80°	TEST
DENSITY (g/cm³)	1,11 ± 0,05	1,13 ± 0,05	1,14 ± 0,05	1,15 ± 0,05	1,18 ± 0,05	1,21 ± 0,05	ISO R1183
HARDNESS Shore A	30 (+/-5)	40 (+/-5)	50 (+/-5)	60 (+/-5)	70 (+/-5)	80 (+/-5)	ASTM D 2240
ELONGATION (%)	500	625	450	400	320	215	UNE ISO 37
TENSILE STRENGTH (Mpa)	8,0	9,0	9,0	10,0	10,0	7,0	UNE ISO 37
TEMPERATURE MIN (°C)	-60	-60	-60	-60	-60	-60	
TEMPERATURE MAX (°C)	200	200	200	200	200	200	
TEAR STRENGTH (N/mm)	25	24	35	35	39	18	ASTM D 624A
COLOUR	○ ● ● ● Y según pedido	○ ● ● ● Y según pedido	○ ● ● ● Y según pedido	○ ● ● ● Y según pedido	○ ● ● ● Y según pedido	○ ● ● ● Y según pedido	
N. FIREPROOF SHEETS					UL EN45545		
N. FIREPROOF PROFILES			UNE-EN-45545	UNE-EN-45545	UNE-EN-45545		

APPLICATIONS

The applications of this elastomer include many industrial sectors, such as luminaire seals, for smoke extraction ducts, for the railway and automotive sectors, and it also has great applications in the food sector.

But its main application is dedicated to the pharmaceutical sector thanks to its antibacterial properties.



GENERAL CHARACTERISTICS:

TEST	RESULT	STANDARD
Brittle Point	-80°C (-112°F)	ASTM D746
Oxygen Limiting Index	24,0%	BS 2782 PARTE 1
Thermal Conductivity	0,24 W.m ⁻¹ . K ⁻¹	VDE 0304
Radiation resistance	>10 ⁵ Grises (10 ⁷ Rads) Típicas	
Dielectric strength	23 Kv.mm ⁻¹	VDE 0303
Dielectric constant	2.9	VDE 0303
Dissipation factor	3x10 ⁻⁴	VDE 0303
Volume resistivity	3x10 ⁵ Ω.cm	VDE 0303