

T620

Halogenated butyl

black | density 1.27 | hardness 60

03/07/2014

BUTYL 60 SHEETING: FOR TECHNICAL APPLICATIONS

FEATURES

High grade halogenated butyl.

ADVANTAGES

- ▶ Good resistance to diluted acids and bases
- ▶ Excellent ageing resistance
- ▶ Excellent ozone resistance
- ▶ Excellent low and high temperature resistance
- ▶ Good abrasion resistance and compression set values
- ▶ Low air permeability
- ▶ Excellent impermeability to gases
- ▶ Resistant to most inorganic substances
- ▶ High resistance to mineral acids and alkalis
- ▶ Resistant to ketones and low molecular weight alcohols
- ▶ Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

BENEFITS

- ▶ Performance
- ▶ Reliability
- ▶ Safety
- ▶ Service life

APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with:

- ▶ maximum temperature + 140 °C: water, steam
- ▶ maximum temperature + 80 °C: sea water, swimming pool water, water washing
- ▶ maximum temperature 20 °C: sulphuric acid (concentration ≤ 95 %), nitric acid (concentration ≤ 50 %)
- ▶ maximum temperature 70 °C: hydrochloric acid (concentration ≤ 37 %)
- ▶ maximum temperature 80 °C: lime, potash, soda (concentration ≤ 100 °C)

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
MECHANICAL				
<i>Rubber compound</i>			Halogenated butyl	
<i>Density</i>			1.27 ± 0.05	g/cm ³
<i>Hardness</i>		ASTM D2240	60 ± 5	Shore A
<i>Tensile strength</i>		ISO 37	≥ 8	MPa
<i>Elongation at break</i>		ISO 37	≥ 400	%
<i>Compression set after 22 h at 70 °C</i>		ISO 815-1	≤ 25	%
TEMPERATURE				
<i>Working temperature</i>			- 40/+ 130	°C
AGEING				
<i>Δ Hardness after 168 h at 70 °C</i>		ASTM D573	≤ 5	Shore A
<i>Δ Tensile strenght after 168 h at 70 °C</i>		ASTM D573	≤ - 15	%
<i>Δ Elongation at break after 168 h at 70 °C</i>		ASTM D573	≤ - 40	%
<i>Ozone resistance, 100 pphm, 48 h, 38 °C, 20 %</i>		ASTM D1149 type A	No crack	
CHEMICAL RESISTANCE				
<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>	
Very good	Good	Very good	Non suitable	

DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Pattern
1 ± 0.3	1400 ± 2 %	20 ± 2 %	1.27	2 sides matt
2 ± 0.3	1400 ± 2 %	15 ± 2 %	2.54	2 sides matt
3 ± 0.3	1400 ± 2 %	10 ± 2 %	3.81	2 sides matt
4 ± 0.4	1400 ± 2 %	10 ± 2 %	5.08	2 sides matt
5 ± 0.4	1400 ± 2 %	10 ± 2 %	6.35	1 side smooth/1 side matt
6 ± 0.5	1400 ± 2 %	10 ± 2 %	7.62	1 side smooth/1 side matt
8 ± 0.7	1400 ± 2 %	5 ± 2 %	10.16	1 side smooth/1 side matt
10 ± 1.0	1400 ± 2 %	5 ± 2 %	12.70	1 side smooth/1 side matt

IDENTIFICATION

<i>Branding</i>	Without.
<i>Packaging</i>	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
<i>Wrapping</i>	Black polyethylene film.
<i>Labelling</i>	Self-adhesive label indicating product name, dimensions, area in m ² , nominal weight, and product code to allow product traceability.