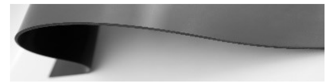
SEMPERIT

FLAME PROTECTED MATERIAL



EPDM E 2441

General:

EPDM, black
sulphur crosslinked
non staining
flame resistance classification from 2 to 10 mm thickness
according DIN EN 45545 part 2: 2016-02
for applications R22/R23
R22 (2 – 10 mm): class HL2
R23 (2 – 10 mm): class HL3
complies with flame classification according ECE-R 118 Annex 6
(95/28/EC Annex IV) & FMVSS 302

Wrapping: stretched foil, labelled
standard finishing in separation foil

*SVHC-free

Properties:

Hardness [Shore A]:	ISO 48,4	65±5
Density [g/cm³]:	ISO 1183-1	~1,11
Tensile Strength [N/mm²]:	ISO 37 type 2	7
Elongation at Break [%]:	ISO 37 type 2	300
Abrasion [mm³]	ISO 4649 method A	350
Tear resistance [N/mm]	ISO 34-1 method A	6
Flame reaction	EN 45545-2	R22: HL2 R23: HL3

correspond to WDK-guideline 2201 : 2020-10 “Quality characteristics of Elastomer sheets and plates”

Working temperature range

Medium	dyn.(stat.)	max.	short-term
Air	(-35)°C	+100°C	+120°C

Compression set DIN ISO 815

Duration	Temperature	CS
22h	+70°C	40%

Ozone resistance ISO 1431-1

Duration	ozone	Temperature	Crack Level
48h	200 pphm	40°C	0 (=no cracks)

Ageing ISO 188

Conditions	Hardness	Strength	Elongation
22h / 100°C	10 Shore A	20%	25%

Stabilities:

Ozone resistance:	good resistant
Weather resistance:	good resistant
Oil resistance:	non resistant
Fuel resistance:	non resistant
Acid resistance:	resistant
Strong bases:	good resistant
Abrasion resistance:	moderately resistant

Rotacured sheeting	thickness mm	width mm	length mm
401124200	2,00	1.400	20.000
401124300	3,00	1.400	10.000
401124400	4,00	1.400	10.000
401124500	5,00	1.400	10.000
401124600	6,00	1.400	10.000
401124800	8,00	1.400	5.000
401124000	10,00	1.400	5.000

PAH disclaimer:
Referring to an international proficiency test and information received from the testing laboratories about accuracy of test results we may inform you, that test results for the same specimen from different laboratories may not correlate:
* Results of the 10 PAH with individual limits of < 1 mg/kg in the measurement range around the limit are only accurate to approx. ± 70%.
* Results of the overall limit of < 50 mg/kg are only accurate to approx. ± 35%

Our test results are provided on an as-is basis and to the best of our knowledge, without any legally binding commitment. Our tests do not release you from own tests as to the respective application envisaged.

Please note:
This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operation conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether specified properties of our products are sufficient for the intended use. If there is any doubt (e.g. chemical resistance), do not hesitate to contact our qualitied engineers. The use of our products is at the user’s own risk. We do not have any influence concerning the application and individual usage. We do of course warrant the quality of our products according to our General Sales Conditions, available on our website or on request.

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