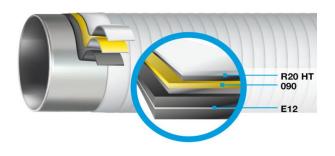
BUTYLEN System 1 BUTYLEN-E12/-090/-R20 HT



Product information



Special advantages:



For permanent operating temperatures up to +30°C (+86°F).



Fulfils EN 12068-C 30.



Highly resistant thanks to three-tape design.



Easy application even for manual wrapping.

Robust field coating system for the corrosion prevention of pipelines and pipeline components.

DEKOTEC GmbH stands for experience, quality and reliability in the field of corrosion prevention and sealing technology. The success is based on the development of the Petrolatum-Tape which was already developed in 1927 as the first product worldwide for passive corrosion prevention of pipelines. We establish and guarantee the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees are continuously implementing safe and individual solutions in a personal cooperation with the customer.

Description

BUTYLEN System 1 is a robust field coating system for the permanent corrosion prevention of pipelines and pipeline components. BUTYLEN System 1 is a highly stressable systems based on is design of three BUTYLEN tapes. The requirements for the stress class C 30 in accordance with EN 12068 are exceeded.

Standard designation:

EN 12068 - C 30

BUTYLEN System 1 consists of three **BUTYLEN** tapes that have been proven for a long time:

BUTYLEN-E12 is a soft butyl rubber tape, which - as the inner tape assumes the major corrosion prevention properties of the system. The thick butyl rubber layer of the system permits an outstanding molding of unevenly formed surfaces and an easy manual processing, e.g. on pipelines with small nominal pipe sizes, pipe bends and house connection valves. Due to its self-amalgamation effect in the overlapping area, BUTYLEN-E12 creates an essentially gas and water tight as well as electrically high insulating encasement.

BUTYLEN-090 is used as the middle layer in the coating system. It is a flexible two-ply tape with a polyethylene outside layer and a butyl rubber coating positioned on the inside. The applied winding tension presses the inner tape solidly to the component surface and supports the self-amalgamation of the inner tape.

BUTYLEN-R20 HT is a robust twoply tape. The solid polyethylene outside layer protects the encasement against mechanical stresses.

All three **BUTYLEN** tapes can be processed efficiently with the **DEKOMAT®** wrapping devices.



Typical product properties

Unit	BUTYLEN-E12 Typical value	BUTYLEN-090 Typical value	BUTYLEN-R20 HT Typical value	Test method
-		yellow	white, black , or blue	-
-	black	black	black	-
-	black	-	-	-
mm	≥1.2	≥0.4	≥0.5	
mm	≥0.025	≥0.22	≥0.3	ISO 4591
mm	≥0.73	≥0.18	≥0.2	ASTM D1000
mm	≥0.45	-	-	
%	-	≥400	≥500	DIN 30672
N/cm	-	≥35	≥65	EN 12068
kV/mm	-	-	≥50	ASTM D149
	- - - mm mm mm mm mm %	Unit Typical value - black - black mm ≥1.2 mm ≥0.025 mm ≥0.73 mm ≥0.45 % - N/cm -	Unit Typical value Typical value - yellow - black black - black - mm ≥1.2 ≥0.4 mm ≥0.025 ≥0.22 mm ≥0.73 ≥0.18 mm ≥0.45 - % - ≥400 N/cm - ≥35	Unit Typical value Typical value Typical value - black black black - black - - mm ≥1.2 ≥0.4 ≥0.5 mm ≥0.025 ≥0.22 ≥0.3 mm ≥0.73 ≥0.18 ≥0.2 mm ≥0.45 - - % - ≥400 ≥500 N/cm - ≥35 ≥65

Property		Unit	BUTYLEN System 1 Typical value	Required value	Test method	
	Primer		BUTYLEN-HT Primer			
System design	Inner tape		BUTYLEN-E12, 2 layers			
	Tensioning tape		BUTYLEN-090, 2 layers	-	-	
	Outer tape		BUTYLEN-R20 HT, 2 layers			
Total thickness		mm	≥4.2	-	-	
Specific electrical in	nsulation resistance	Ohm m ²	≥10 ¹⁰	≥10 ⁸	EN 12068	
Peel strength meta	l/primer/tape	N/cm	≥15	≥10	EN 12068 ASTM D1000	
	E12 / E12	N / cm	≥30	≥15	EN 12000	
Peel strength	E12 / 090		≥20	≥15		
layer to layer	090 / 090		≥2	≥2	EN 12068	
	R20 HT / R20 HT		≥3	≥2		
		mm	>0.8	≥0.6	EN 12068	
Impact resistance		J	>15	≥15	EN 12068	
Cathodic disbondment (radius)		mm	<8	<20	EN 12068	
Lap shear strength on steel		N/cm²	>15	≥5	EN 12068	
Peel strength		≥30 ≥20 ≥2 ≥3 >0.8 >15 <8	≥15 ≥15 ≥2 ≥2 ≥2 ≥0.6 ≥15 <20	EN 120 EN 120 EN 120 EN 120 EN 120 EN 120		

BUTYLEN tapes can be easily applied manually. The processing with the original **DEKOMAT®** wrapping devices is even more efficient. For **BUTYLEN** tapes with widths of > 50 mm, we recommend the use of the **DEKOMAT®** wrapping device to guarantee an excellent processing quality.

Ordering information and packaging

	Core diameter Tap (mm)	Tape length (m)	Width (mm)	Tape area (m²)	Content per box			
					Number of rolls	Total tape area (m²)	Total tape length (m)	App. weight (kg)
BUTYLEN-E12	41	10	50	0.5	12	6.0	120	10
			75	0.75	12	9.0	120	15
			100	1.0	6	6.0	60	10
BUTYLEN-090	41	15	50	0.75	12	9.0	180	6.5
			75	1.125	12	13.5	180	10,0
			100	1.5	6	9.0	90	6.5
		15	30	0.45	18	8.1	270	5.0
BUTYLEN-R20 HT			50	0.75	12	9.0	180	5.5
			75	1.125	12	13.5	180	8.0
	41		100	1.5	6	9.0	90	55
	41		50	1.5	12	18	360	11.0
		30	75	2.25	12	27	360	17.0
			100	3.0	6	18	180	11.0
			150	4.5	6	27	180	17.0

Additional lengths and widths are available on request.

Storage

When stored in its original, unopened packaging, **BUTYLEN-E12/-090/-R20 HT** can be stored for at least 60 months after the manufacturing date.

Storage temperature: ≤ +50°C (+122°F)

Store in a dry location and do not rest anything against the front of the product.