

Features/Applications

GREM SHAPES® GBOS is a flame retardant hot melt lined irradiated polyolefin heat shrink moulded breakout with 2 to 3 fingers.
 GREM SHAPES® GBOS offers a superior resistance to oxidation, UV radiation and excellent encapsulation properties.
 GREM SHAPES® GBOS are suitable for used both on open air and on underground power distribution (up to 1kV) and telecommunication cables with PVC or XLPE sheets.

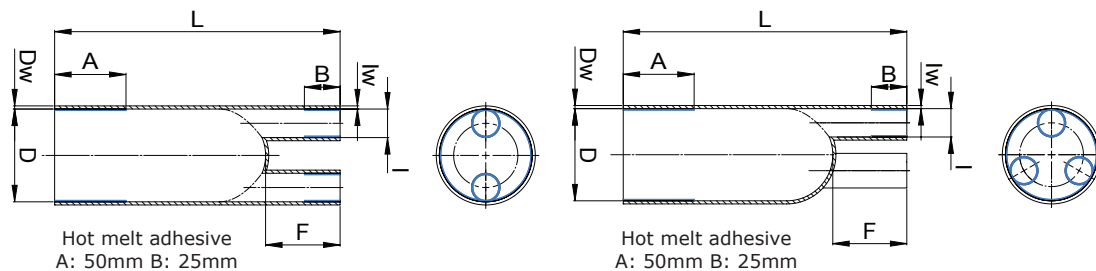
Various

Standard colour: Black.

Dimensions

GREM SHAPES® GBOS	D (mm)		I (mm)		Recovered length		Recovered wall thickness	
	a (min.)	b (max.)	a (min.)	b (max.)	L (mm)	F (mm)	Dw (mm)	Iw (mm)
2 fingers breakout								
LV2 22/8	22	8	10	3	85	20	2,2	2,0
LV2 28/8	28	8	12	3	85	20	2,2	2,0
LV2 32/10	32	10	14	4	85	20	2,2	2,0
LV2 42/11	42	11	14	4	85	20	2,2	2,0
LV2 60/20	60	20	24	7	120	34	3,0	2,5
LV2 156/65	156	65	50	15	138	58	2,2	2,0
3 fingers breakout								
LV3 37/14	37	14	15	4	100	21	2,2	2,0
LV3 60/20	60	20	25	8	188	62	3,7	2,8
LV3 75/28	75	28	35	13	173	47	3,5	3,0
LV3 80/30	80	30	36	13	215	75	3,9	3,1
LV3 100/30	100	30	39	13	215	75	3,9	3,1
LV3 110/45	110	45	55	20	235	88	4,3	3,0
LV3 125/45	125	45	57	21	230	90	4,6	3,4
LV3 140/56	140	56	68	28	250	90	4,6	3,4
LV3 180/58	180	58	68	29	250	90	4,6	3,4

• a : as supplied / b : after free recovery



Property

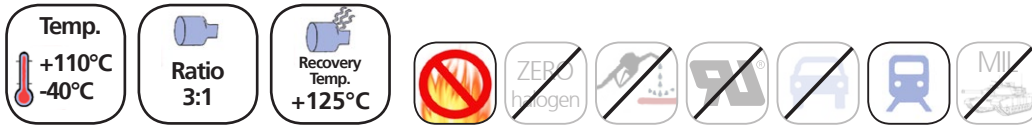
Property	Values	Test Methods
Physical		
Working temperature	-40°C to +110°C	-
Longitudinal change	-15%	ASTM D 2671
Tensile strength	> 12 MPa	ASTM D 638
Elongation at break	Unaged > 350%	ASTM D 638
Tensile strength	Aged (500h @ 120°C) > 11 MPa	ASTM D 638
Elongation at break after aging	> 300%	ASTM D 638
Low temperature flexibility	4h @ -40°C No cracking	ASTM D 2671
Heat shock	1/2h @ 250°C No cracking or flowing	ESI 09-11
Electrical		
Dielectric strength	> 12kV/mm	ASTM D 149
Volume resistivity	> 1x10 ¹⁴ Ω.cm	ASTM D 257
Chemical		
Water absorption	< 0,2% (max.)	ASTM D 570
Adhesive		
Softening point (Ball & ring)	85°C	-
Melting process temperature	160°C to 180°C	-
Resistant against being in contact with oil	Pass	-

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.



30/09/2015 Rev7

Whilst every attempt is made to provide data that is as accurate as possible the values provided should be treated as a guide only. It remains the responsibility of the user to test the product and determine suitability. GREMTEK shall not be held responsible for any loss or defect resulting from incorrect, improper or inappropriate use of this product.



Features/Applications

GREMSHAPES® is a flame retardant hot melt lined irradiated polyolefin heat shrink moulded breakout with up to 7 fingers.
GREMSHAPES® GBOS offers a superior resistance to oxidation, UV radiation and excellent encapsulation properties.
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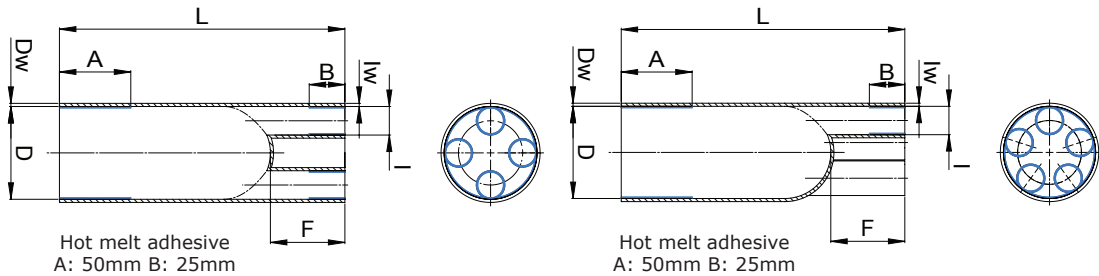
Various

Standard colour: Black.

Dimensions

GREMSHAPES® GBOS	D (mm)		I (mm)		Recovered length		Recovered wall thickness	
	a (min.)	b (max.)	a (min.)	b (max.)	L (mm)	F (mm)	Dw (mm)	Iw (mm)
4 fingers breakout								
LV4 40/12	40	12	12	3	100	25	2,4	1,7
LV4 41/16	41	16	14	4	100	23	2,4	1,7
LV4 50/17	50	17	17	4	95	23	2,4	1,7
LV4 58/26	58	26	21	7	170	48	3,5	2,5
LV4 70/25	70	25	25	8	190	51	3,5	2,3
LV4 70/30	70	30	25	9	190	48	3,7	2,6
LV4 80/31	80	31	31	10	190	47	3,7	2,6
LV4 90/42	90	42	35	13	210	52	3,7	2,6
LV4 110/44	110	44	35	13	208	51	3,7	2,6
LV4 125/44	125	44	40	14	208	51	3,7	2,6
5 fingers breakout								
LV5 50/16	50	16	15	4	110	33	3,2	2,6
LV5 80/32	80	32	26	8	190	65	3,3	2,8
LV5 100/33	100	33	32	8	190	65	3,3	2,8
6 fingers breakout								
LV6 44/12	44	12	13	4	82	30	2,2	2,0
LV6 85/37	85	37	25	7	140	46	3,2	2,6
7 fingers breakout								
LV7 95/37	95	37	26	7	140	55	2,7	2,6

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Heat shock	30 min. @ 250°C No cracking or flowing	ESI 09-11
Electrical		
Dielectric strength	> 12kV/mm	ASTM D 149
Volume resistivity	> 1x10 ¹⁴ Ω.cm	ASTM D 257
Chemical		
Water absorption	< 0,2% (max.)	ASTM D 570
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