

**Features/Applications**

GREM SHAPES® is a flame retardant hot melt lined irradiated Polyolefin heat shrink moulded breakout with up to 7 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.

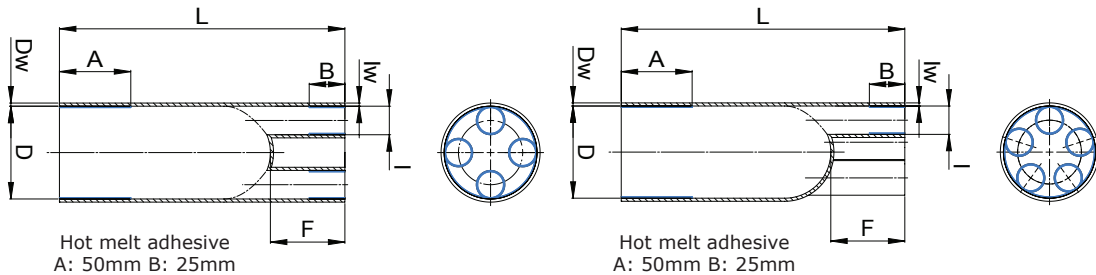
**Various**

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)
<b>4 fingers breakout</b>								
LV4 28/9	28	9	9	3	75	32	2,4	2,1
LV4 40/12	40	12	12	3	100	25	2,4	1,7
LV4 50/17	50	17	17	4	95	23	2,4	1,7
LV4 57/26	57	26	20	7	170	48	3,5	2,5
LV4 68/25	68	25	25	8	188	48	3,5	2,3
LV4 80/31	80	31	32	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
LV4 180/80	180	80	70	40	260	95	3,7	2,8
<b>5 fingers breakout</b>								
LV5 32/11	32	11	10	3	75	20	2,3	2,0
LV5 57/17	57	17	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
<b>6 fingers breakout</b>								
LV6 44/12	44	12	13	4	82	30	2,2	2
LV6 85/37	85	37	25	7	138	46	3,2	2,6
<b>7 fingers breakout</b>								
LV7 95/37	95	37	26	7	135	55	2,7	2,6
LV7 118/46	118	46	35	19	145	52	4,3	3

• a : as supplied / b : after free recovery



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**Property**

	Values	Test Methods
<b>Physical</b>		
Working temperature	-40°C to +100°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	30 min. @ 250°C No cracking or flowing	ESI 09-11
<b>Electrical</b>		
Dielectric strength	> 12kV/mm	ASTM D 149
Volume resistivity	> 1x10 <sup>14</sup> Ω.cm	ASTM D 257
<b>Chemical</b>		
Water absorption	< 0,2% (max.)	ASTM D 570
<b>Adhesive</b>		
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 container.

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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.