

Fabrication Layup for NSP and Paralex Material



BK layup – Single shot (Up to 220 pounds) for puck lock type lamination

- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder)
- Nyglass (tie off)
- Reflect NSP braid down – at least 1/3 of socket length
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Nyglass
- NSP Braid
- Perlon or Nylon hose

The concept for layups includes tying off and reflecting layers, not cutting to length if possible. We believe layers should be equalized for best results. (Each line represents 1 layer)

BK Layup – 2 stage lamination (Up to 220 pounds)

1st lamination: (Will end up with 1 full and ¼ length NSP braid layup)

- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder later)
- Nyglass (tie to reflect remainder later)
- NSP Uni Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Reflect down NSP Braid (25% of length)
- Reflect down Nyglass (scuffing layer for finish lamination)
- Nyglass (scuffing layer for finish lamination – if needed)
- **2nd lamination: (Final lamination total layup 2 full, ½ and ¼ length)**
- **NSP braid layup inclusive of 1st lamination)**
- NSP Braid (50% of length - tie to reflect remainder later)
- Nyglass
- Reflect NSP Braid
- Nylon Hose (or outer finish material/design)



(Above: Example of split tape to veer around braid/features)

BK layup – Single shot (Up to 375 pounds) For Puck Lock type lamination

- Perlon, or flexastretch (sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to socket adapter to reflect remainder after nyglass)
- Nyglass (tie to socket adapter)
- Reflect NSP Braid (25% of length)
- Nyglass
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Nyglass
- NSP Braid (50% of length tie to socket adapter to reflect down)
- Reflect NSP Braid
- Perlon or Nylon hose



(Above: Example of loose tie off of braid to facilitate full fabric saturation)

BK Layup – 2 stage lamination (Up to 375 pounds)

1st lamination:

- Perlon, or flexastretch (Sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder later)
- Nyglass (tie to reflect remainder later)
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Reflect Nyglass
- Reflect NSP Braid (Single layer 50% of length)
- 2 Nyglass (scuffing layers for finish lamination)

2nd lamination:

- NSP Braid (tie to reflect remainder later)
- Nyglass
- NSP Braid
- Nylon Hose

NOTE: These are layup suggestions, once you get familiar with the material, you can change up to your needs. For any socket connectors, be sure to have at least 2 layers of braid to prevent push through, and tie in at least 2 layers to connector.

Fabrication Layup for NSP and Paralex Material



AK layup – Single shot (Up to 220 pounds) For Puck Lock type lamination

- Perlon (Sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tie off to be reflected down later)
- Nyglass (tie off to socket adapter to be reflected down later)
- NSP Tape for struts and brim
- Reflect Nyglass
- Reflect NSP Braid (50% of length)
- NSP Braid (tie to socket adapter and include enough to reflect 1/3 of length of socket)
- Nyglass (tie to socket adapter)
- Reflect the 1/3 length of NSP Braid.
- Nylon hose

The concept for layups includes tying off and reflecting layers, not cutting to length if possible. We believe layers should be equalized for best results. (Each line represents 1 layer)

AK Layup – 2 stage lamination (Up to 220 pounds)

1st lamination:

- Perlon, or flexastretch (Can put Dacron Felt first layer if needed)
 - NSP Braid (tie to reflect remainder later)
 - Nyglass (tie to reflect remainder later)
 - NSP Unidirectional Tape 0-90 and brim circumference
 - Reflect Nyglass
 - reflect NSP Braid (30% of length)
 - 2 Nyglass (scuffing layers for finish lamination)
- ### 2nd lamination:
- NSP Braid (50% of socket length tie to reflect down later)
 - Nyglass
 - NSP Braid
 - Nylon Hose



(Above: Example of split tape to veer around braid/features)

AK layup – Single shot (Up to 375 pounds) For Puck Lock type lamination

- Perlon (Sew end) (Can put Dacron Felt first layer if needed)
- NSP Braid (tied off to be reflected back down later)
- Nyglass (tie to reflect remainder)
- NSP Unidirectional Tape 0-90 and brim circumference (may need to split tape to veer around braid/stockinette)
- Reflect Nyglass
- NSP Braid (80% of length, tie to reflect remainder)
- Nyglass
- Reflect NSP Braid
- Nylon hose



(Above: Example of loose tie off of braid to facilitate full fabric saturation)

AK Layup – 2 stage lamination (Up to 375 pounds)

1st lamination:

- Perlon, or flexastretch (Can put Dacron Felt first layer if needed)
- NSP Braid (tie to reflect remainder later)
- Nyglass (tie to reflect remainder later)
- NSP Unidirectional Tape 0-90 and brim circumference (if needed) (may need to split tape to veer around braid/stockinette)
- Reflect Nyglass
- Reflect NSP Braid (30% of length)
- NSP Braid
- 2 Nyglass (scuffing layers for finish lamination)

2nd lamination:

- NSP Braid (75% of socket length tie to reflect down)
- Nyglass (tie to reflect remainder)
- NSP Braid (50% of socket length Single layer)
- Reflect NSP Braid
- Nylon Hose

NOTE: These are layup suggestions, once you get familiar with the material, you can change up to your needs. For any socket connectors, be sure to have at least 2 layers of braid to prevent push through, and tie in at least 2 layers to connector.