Application Notes

Durafil Tex 40 Heat Fusible Blind Hem Yarn

For Blind Hem Reinforcement and Internal Garment Stabilisation

1. Product Overview

Durafil Tex 40 Heat Fusible Blind Hem Yarn is a low melting polyamide functional yarn developed for use in blind hem constructions requiring improved stability, cleaner finish, and greater consistency after pressing and washing.

The yarn softens at approximately 85°C and creates controlled internal bonding within the hem structure during standard pressing operations.

It is intended for use where discreet appearance is required together with improved internal seam support.

2. Recommended Applications

Suitable for:

- Blind hems in formal trousers
- School uniform trousers
- Corporate uniform trousers
- Workwear trousers

- Structured skirts with blind hems
- Garments requiring cleaner hem appearance after repeated washing
- Blind hems where additional internal support is required without visible stitching changes

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3. Suitable Fabrics

Compatible with many common trouser and uniform fabrics, including:

- Polyester fabrics
- Polyester / viscose blends
- Cotton / polyester blends
- Polyamide blends
- Medium-weight woven fabrics
- Structured suiting fabrics

Trial recommended for:

- Heat-sensitive fabrics
- Coated fabrics
- Stretch fabrics
- Lightweight delicate constructions
- Dark fabrics where pressing marks are a concern

4. Sewing Guidelines

Recommended practice:

- Use only as lower looper thread in blind hem overlock construction
- Confirm smooth yarn feeding from package to machine
- Maintain balanced thread tension to avoid excessive draw or slackness
- Use moderate sewing speeds to minimise needle and machine heat build-up
- Ensure lower looper path is clean and free from sharp friction points
- Conduct machine trials before bulk production

Where used in blind hem production, confirm stitch formation, seam appearance, and smooth running on the intended machine setup before production release.

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5. Heat Activation Guidelines

Typical activation method:

- Standard garment pressing operation
- Heat activates yarn within hem zone
- Bonding occurs internally between adjacent layers
- Allow cooling in stable position before handling

Initial trial range:

- Temperature: approximately 90–130°C surface process conditions (depending on press efficiency and fabric insulation)
- Dwell time: short controlled press cycle
- Pressure: moderate and even

Actual settings must be established by user trials.

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6. Process Considerations

Final performance is influenced by:

- Fabric composition
- Fabric thickness
- Hem fold construction
- Stitch density
- Press temperature
- Pressure uniformity
- Dwell time
- Cooling method after pressing

Always validate under real production conditions.

7. Expected Benefits

When correctly processed, the product may help improve:

- Blind hem stability after washing
- Resistance to seam slippage
- Flatter hem appearance
- Reduced puckering tendency
- Consistency across production lots
- Garment presentation in uniforms and structured trousers

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8. Trial Protocol Recommendation

Before bulk production:

1. Produce standard blind hem control sample
2. Produce sample using Durafil Tex 40 Heat Fusible Blind Hem Yarn
3. Compare after pressing
4. Compare after wash testing
5. Evaluate appearance, hand feel, stability, and consistency
6. Approve process window before scale-up

9. Disclaimer

Performance depends on garment construction, machine settings, pressing conditions, and operator control.

Users are responsible for conducting suitability trials, process adjustment, and validation before commercial production.

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10. Contact for Technical Support

For technical queries:

Email: info@durafil-group.com