

# Technical Data Sheet

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Durafil Heat Fusible Yarn

Tex 40 | Low Melting Polyamide | Natural Colour

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## 1. Product Description

Durafil Heat Fusible Yarn is a low melting polyamide functional yarn designed for thermal bonding, reinforcement, and stabilisation applications where controlled heat activation is required.

The product may be supplied for:

- Rewinding onto kingspools or other retail packages by sewing thread manufacturers and thread makers
- Direct industrial sewing use in suitable non-overlock sewing operations
- Garment and uniform reinforcement applications
- Selected technical and non-textile sewn product applications
- Internal seam support or bonding functions

When exposed to suitable heat and pressure, the yarn softens and bonds adjacent materials, helping improve structural integrity without requiring adhesives.

## 2. Key Benefits

- Low temperature thermal activation
  - Suitable for rewinding and repackaging programs
  - Supports seam reinforcement and stabilisation
  - Can reduce need for separate adhesive systems in some uses
  - Suitable for textile and selected non-textile sewn applications
  - Natural colour for broad conversion flexibility
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## 3. Typical Applications

### Textile Uses

- Blind hem reinforcement
- Internal garment stabilisation
- Waistband support
- Collar or cuff reinforcement
- Uniform and workwear construction
- Rewinding by thread makers into user-friendly packages

## Non-Textile Uses

- Soft goods assembly
- Sewn filter products
- Protective covers
- Organisers / cases
- Selected stitched products requiring thermal support

Trials are recommended for each application.

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## 4. Technical Specification

Property	Typical Value
Product Name	Durafil Heat Fusible Yarn
Material	Low Melting Polyamide
Yarn Count	Tex 40
Approx. Denier	Approx. 360 Denier
Colour	Natural
Softening / Activation Range	Approx. 80–90°C
Nominal Melting Point	Approx. 85°C
Construction	Functional bonding yarn

Supply Form	Yarn package / cone
Rewind Suitability	Yes

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## 5. Processing Guidelines

Recommended trial conditions must be established by user.

Typical use method:

- Introduce yarn into selected stitch or seam area
- Apply suitable sewing process
- Apply heat and pressure where bonding is required
- Allow cooling before handling

Process variables affecting result:

- Temperature
- Dwell time
- Pressure
- Material composition
- Construction design
- Moisture conditions

## 6. Material Compatibility

Suitable for trials on:

- Polyester fabrics
- Polyester / viscose blends
- Cotton blends
- Polyamide blends
- Many uniform and industrial fabrics
- Selected technical sewn materials

Always conduct pre-production trials, especially on heat-sensitive materials.

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## 7. Storage & Handling

- Store in cool, dry conditions
- Keep away from direct heat sources
- Protect from dust and contamination
- Keep packaging closed when not in use
- Rotate stock using first-in, first-out principle

Recommended storage temperature: below 30°C where practical.

## 8. Important Notes

This product is designed to provide reinforcement or bonding performance through controlled thermal activation.

Final performance depends on construction design, substrate type, heat conditions, and process control.

Users are responsible for testing, process adjustment, and validation before bulk production.

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## 9. Packaging Options

Available subject to order quantity:

- Industrial yarn packages
  - Cones for rewinding
  - Custom winding formats
  - OEM / private label supply for thread manufacturers
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## 10. Contact for Technical Support

For technical queries:

Email: [info@durafil-group.com](mailto:info@durafil-group.com)