

**Product survey**

**E-Glass roving for LFI and LFT**

**Roving for LFI and LFT applications**

Typ	µm	Nominal fineness Roving skein	compatible with	working	
				LFI	LFT
254 M	15	4800	PUR	***	
490	16	1200 – 2400	PP		***
576	15	2400 – 5760	UP	***	
871	15.5 – 16	600 – 2400	PP		***

**Quality characteristics:**

- ✓ High wear resistance and therefore low glass fiber fluff
- ✓ Very good cutting performance
- ✓ Optimum dispersion of the roving skein in its single fibers
- ✓ High mechanical strength of the final product

Product information

**StarRov®**  
**E-glass roving 254M (LFI-process)**



**Description:**

Roving 254M is wound to a roving bobbin (assembled) by consistent stress wound strands. The recommended field of application is the production of moulded parts in LFI (long fiber injection) process. The strong silane size guarantees a good cutting ability and dispersion in its single fibers. The size is adjusted in an optimum way to the working with PU systems. The product is made of E-glass marked as aluminium-borosilicate glass according to DIN 1259-1 and ASTM D 578

**Quality characteristics:**

- ✓ Very good cutting performance
- ✓ Optimum dispersion of the roving skein in its single fibers
- ✓ High mechanical strength of the final product

**Technical characteristics (target values):**

	Unit	EC15 4800 254 (90) M
Filament diameter	µm	15
Nominal fineness roving skein	tex	4800
Size base		silane
Bobbin weight	kg	20 +/-1

## Measurable parameters

	Method	EC15 4800 254 (90) M
Glowing loss	ISO 1887	1.25
Moisture content	ISO 3344	0.15
Linear density (titer)	ISO 1889	4800
Rigidity (mm)	ISO 3375	130

## Packaging and labeling:

The assembled roving is produced in the shape of a cylindrical bobbin with inside unwinding. The bobbins are single packed in foil. The product is delivered on pallets.

<b>Bobbing height:</b>	255 mm
<b>Outside diameter:</b>	280 mm
<b>Bobbins per pallet:</b>	48 resp. 64 pieces
<b>Pallet weight / size:</b>	ca. 950 kg / 120 x 88 resp. 118 x 118 cm

Each packing unit is marked with the following information:

Producer, product name, batch, gross- / net weight, product code, production date, packing code

## Transport and storage conditions:

The product is transported in closed and moisture protected vehicles  
The supply is effected with quality certificate.

These products should be stored in original packaging in dry, roofed and dust-free warehouses. The recommended temperature is between 10°C and 30°C at a relative air moisture between 50% and 75%.

Before working the products should be conditioned in original packing in the working area for at least 24 hours. The pallets may not be stacked if there are no other instructions on the packing.

Product information

**StarRov®**  
**E-glass direct roving 490 (LFT-process)**



**Description:**

Direct roving 490 is drawn „directly“ from the glass melting and wound to a roving bobbin without turn. The recommended field of application is the reinforcement of polypropylene (PP) as “long fiber reinforced thermoplastics” LFT (D-LFT) without or in connection with suitable coupling agents. By high fiber integrity a very good handling, extraction and dosage is guaranteed. Whilst working in chemically coupled PP systems the already very high mechanical strength values at standard systems still will be improved extremely. The product is made of E-glass marked as aluminium-borosilicate glass according to DIN 1259-1 and ASTM D 578.

**Quality characteristics**

- ✓ Good wear resistance and therefore low glass fiber fluff
- ✓ Loop free and consistent stress roving skein
- ✓ Neutral colour performance of the final products

**Technical characteristics (target values):**

	Unit	PR 220 1200 490	PR 440 2400 490
Filament diameter	µm	16	16
Nominal fineness roving skein	tex	1200	2400
Size base		silane	silane
Bobbin weight	kg	19 +/-1	19 +/-1

## Measurable parameters

	Method	PR220 1200 490	PR440 2400 490
Glowing loss	ISO 1887	0.55	0.55
Moisture content	ISO 3344	0.15	0.15
Linear density (titer)	ISO 1889	1200	2400
Rigidity (mm)	ISO 3375	300	550

## Packaging and labeling:

The direct roving is produced in the shape of a cylindrical bobbin with inside unwinding. The bobbins are single packed in foil. The product is delivered in cartons on a pallet. The inner and outer ends are ordered resp. connected according to the packing standards.

<b>Bobbin height:</b>	255 mm
<b>Outside diameter:</b>	280 mm
<b>Bobbins per pallet:</b>	48 resp. 64 pieces
<b>Pallet weight / -size:</b>	ca. 950 kg / 120 x 88 resp. 118 x 118 cm

Each packing unit is marked with the following information:  
 Producer, product name, batch, gross- / net weight, product code, production date, packing code

## Transport and storage conditions:

The product is transported in closed and moisture protected vehicles  
 The supply is effected with quality certificate.

These products should be stored in original packaging in dry, roofed and dust-free warehouses. The recommended temperature is between 10°C and 30°C at a relative air moisture between 50% and 75%.

Before working the products should be conditioned in original packing in the working area for at least 24 hours. The pallets may not be stacked if there are no other instructions on the packing.

Product information

**StarRov®**  
**E-glass roving 576 - assembled**



**Description:**

Roving 576 is wound to a roving bobbin (assembled) by consistent stress wound strands. Roving 576 was especially developed for highspeed cutting process and LFI technology. The strong silane size guarantees good cutting ability and dispersion in its single fibers. The size is adjusted in an optimum way to the working in PU systems.

The product is made of E-glass marked as aluminium-borosilicate glass according to DIN 1259-1 and ASTM D 578

**Quality characteristics:**

- ✓ Good cutting performance especially on wide shearing equipments
- ✓ Optimum dispersion of the roving skein in its single fibers
- ✓ Reduced fiber dust
- ✓ High mechanical strength of the final product

**Technical characteristics (target values):**

	Unit	EC15 2400 576 (80)	EC15 4800 576 (80)	EC15 5760 576 (80)
Filament diameter	µm	15	15	15
Nominal fineness roving skein	tex	2400	4800	5760
Size base		silane	silane	silane
Linear density of the skein (tex)	tex	80	80	80
Bobbin weight	kg	20 +/-1	20 +/-1	20 +/-1

## Measurable parameters

	Method	EC15 2400 576 (80)	EC15 4800 576 (80)	EC15 5760 576 (80)
Glowing loss	ISO 1887	1.25	1.25	1.20
Moisture content	ISO 3344	0.15	0.15	0.15
Linear density (titer)	ISO 1889	2400	4800	5760
Rigidity (mm)	ISO 3375	110	110	-

## Packaging and labeling:

The assembled roving is produced in the shape of a cylindrical bobbin with inside unwinding. The bobbins are single packed in foil. The product is delivered on pallets.

<b>Bobbin height:</b>	255 mm
<b>Outside diameter:</b>	280 mm
<b>Bobbins per pallet:</b>	48 pieces resp. 64 pieces á ca. 20 kg
<b>Pallet:</b>	ca. 950 kg (Mass: 120 x 88 cm)

Single unwinding, on request also as continuous linkage (spliced or textile knot).

Each packing unit is marked with the following information:  
 Producer, product name, batch, gross- / net weight, product code, production date, packing code

## Transport and storage conditions:

The product is transported in closed and moisture protected vehicles  
 The supply is effected with quality certificate.

These products should be stored in original packaging in dry, roofed and dust-free warehouses. The recommended temperature is between 10°C and 30°C at a relative air moisture between 50% and 75%.

Before working the products should be conditioned in original packing in the working area for at least 24 hours. The pallets may not be stacked if there are no other instructions on the packing.

Product information

**StarRov®**  
**E-glass direct roving 871 (LFT-process)**



**Description:**

Direct roving 871 is drawn „directly“ from the glass melting and wound to a roving bobbin without turn. The recommended field of application is the reinforcement of polypropylene (PP) as “long fiber reinforced thermoplastics” LFT without or in connection with suitable coupling agents. By high fiber integrity a very good handling, extraction and dosage is guaranteed. Whilst working in chemically coupled PP systems the already very high mechanical strength values at standard systems still will be improved extremely. The product is made of E-glass marked as aluminium-borosilicate glass according to DIN 1259-1 and ASTM D 578.

**Quality characteristics**

- ✓ Good wear resistance and therefore low glass fiber fluff
- ✓ Loop free and consistent stress roving skein
- ✓ Neutral colour performance of the final products

**Technical characteristics (target values):**

	Unit	PR120 600 871	PR220 1200 871	PR440 2400 871
Filament diameter	µm	15.5	16	16
Nominal fineness roving skein	tex	600	1200	2400
Size base		silane	silane	silane
Bobbin weight	kg	12.5 +/-1	15.5 +/-1	18 +/-1



## Measurable parameters

	Method	PR 120 600 871	PR 440 1200 871	PR 440 2400 871
<b>Glowing loss</b>	ISO 1887	0.40	0.45	0.045
<b>Moisture content</b>	ISO 3344	0.15	0.15	0.15
<b>Linear density (titer)</b>	ISO 1889	600	1200	2400
<b>Tensile strength</b>	ISO 3341	130	300	500

## Packaging and labeling:

The direct roving is produced in the shape of a cylindrical bobbin with inside unwinding. The bobbins are single packed in foil. The product is delivered in cartons on a pallet. The inner and outer ends are ordered resp. connected according to the packing standards.

<b>Bobbin height:</b>	255 mm
<b>Outside diameter:</b>	280 mm
<b>Bobbins per pallet:</b>	48 resp. 64 pieces
<b>Pallet weight/-size:</b>	ca. 950 kg / 120 x 88 resp. 118 x 118 cm

Each packing unit is marked with the following information:  
 Producer, product name, batch, gross- / net weight, product code, production date, packing code

## Transport and storage conditions:

The product is transported in closed and moisture protected vehicles  
 The supply is effected with quality certificate.

These products should be stored in original packaging in dry, roofed and dust-free warehouses. The recommended temperature is between 10°C and 30°C at a relative air moisture between 50% and 75%.

Before working the products should be conditioned in original packing in the working area for at least 24 hours. The pallets may not be stacked if there are no other instructions on the packing.