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TECHNICAL DATA
Greenlink EIS175
INNER SHOE SOLE SYSTEM

Greenlink EIS175 is a microcellular polyurethane foam system formulated for inner shoe sole systems in shoes.

The system can be pigmented to a range of colours.

The system can be processed through plural polyurethane dispensing equipment as used in the shoe sole industry.

COMPONENT PROPERTIES

	EIS 175 Polyol	ESS200/2 Isocyanate
Appearance	Clear to hazy liquid	Pale to Amber coloured liquid
Brookfield Viscosity	1000 - 2000 cps @ 42°C	300 cps @ 40°C
Specific Gravity @	1.17 @ 42°C	1.19 @ 40°C

REACTION PROFILE

Working Temperatures: Polyol – 40 °C
Isocyanate – 35°C

Laboratory results based on hand-mix @ 37°C

Mix ratio by weight (Polyol : Iso)	100 / 63
Mix time (seconds)	4
Cream time (seconds)	5
Gel time (seconds)	17
Tack Free Time (seconds)	55
Free rise density (kg/m^3)	175

MOULD TEMPERATURE

Ideally the mould temperature should be 40 - 45°C. If pouring into a mould at cooler temperatures then the demould time will be lengthened. If the mould temperature is greater than 50°C then the articles moulded may have an imbalance between foam curing and optimal expansion of the foam.

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

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POST CURE

Greenlink EIS175 is designed for mass production with a demould time of approximately 4 minutes. This system is not designed for cure at ambient conditions.

TYPICAL PHYSICAL PROPERTIES

The properties presented below are an average based on several determinations and should not be used for specification purposes.

Free rise density (kg/ m^3)	170
Moulded Density (kg/ m^3)	375-400

Note: If a higher index on this foam is used then a higher hardness in the product will be the result.

HANDLING OF RAW MATERIALS

ESS200/2 Isocyanate

This is a polyester/MDI, and is liquid at room temperature; however it has a tendency to crystallise on standing.
1. Store in a dry environment, i.e. exclude moisture by blanketing with nitrogen.
2. Stores between 20 - 35°C. If the temperature falls below 15°C, the product may crystallise. If the product does crystallise heating the drum to 40-50^{o}C overnight will liquefy the product.
3. As with all isocyanates, good industrial practice should be employed, e.g. avoid contact with eyes, skin and clothing. Avoid breathing in vapours.

Greenlink EIS175 Polyol

The polyol is a blend of different components and is a liquid at room temperature, but may turn waxy on standing. The polyol should be preconditioned at 35-45 ^{o}C for 12-16 hours before use. **It is important to stir the polyol blend for 15-20 minutes with a high shear mixer before use.**

Please refer to the material safety datasheets before handling the isocyanate and polyol.

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