

# SAFETY DATA SHEET

RPET\_PETA\_010315



## Eclipse Dental Bioguard Face Shield

### COMPANY

**Product identifier:** Eclipse Dental Bioguard Face Shield

**Specified use:** Full face protection with wipe clean reusable visor

#### Details of the supplier of the Safety Data Sheet

Eclipse Dental Engineering Limited

Westview Court

10-14 Kent Road

Dartford Kent

DA1 2AJ

United Kingdom

#### Emergency Contact Details

**Telephone:** +44 (0)1322 421153 (9am-5.30pm GMT Monday to Friday)

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### FIELDS OF APPLICATION

Thermoforming suitable

Tool temperature > 30°C

Thermoforming temperature > 120°C

The quality and optical appearance of different batches of R-PET film may vary depending on the quality of the recycled material employed in film extrusion. We recommend R-PET film only for use in applications where the constancy of quality and optical appearance of the film is not considered to be critical.

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### PRODUCT: RPET FILM CONFIGURATION

|                 |  |
|-----------------|--|
| Outside layers: | 100% PETA virgin granulate:<br>Anitblocking masterbatch            |
| Middle layers:  | >70% PETA and PET GAG recycled<br>material from postconsumer waste |

### THICKNESS

|                |                                 |
|----------------|---------------------------------|
| Nominal value: | 0.2 to 0.8 mm                   |
| Tolerance:     | $\leq \pm 5\%$ of nominal value |

### DIMENSIONS

|                |  |
|----------------|--|
| Nominal value: | $\leq 1100$ mm x 1500 mm                       |
| Tolerance:     | $\leq \pm 1$ mm (above 1 m nominal value: 1 ‰) |

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### PHYSICAL PROPERTIES

|                        |   |
|------------------------|---|
| Colour:                | Colourless transparent or coloured according to agreement, shade may vary depending on the colour of the recycling material |
| Density:               | ~1.33 g/m <sup>3</sup>  |
| Impact strength:       | ≥ 200 kJ/m <sup>2</sup> (up to 500µm film thickness)  |
| Tensile strength:      | ≥ 40 N/mm <sup>2</sup>  |
| Elongation at break:   | ≥ 4.5 %   |
| Modulus of elasticity: | ≥ 1500 N/mm <sup>2</sup>  |
| Vicat softening point: | ≈ 71 °C   |
| Melting point:         | ≈ 255 °C  |

### SHRINKAGE

|                 |              |
|-----------------|--------------|
| 10 min at 50°C  | 0 %          |
| 10 min at 70°C  | ≤ 0.2 %      |
| 10 min at 140°C | ≤ 10.0 %     |
| Surface tension | ≥ 38 dyne/cm |