

TORETEC™ Low-Adhesive to High-Adhesive Type

Surface-protection film

TECHNICAL DATA

(The below are representative/measured values and not guaranteed values.)

Features

Surface-protection film that protects surfaces such as optical films and functional plastic plates. We offer a range of thickness, width, length and color options and can suggest a type to suit your needs.

| | TORETEC™ Low-Adhesive Type | | | | | |
|---|----------------------------|------|--|------|---|-------|
| Type Name | 7111 | 7121 | 7531 | 7721 | 7832C | 7332 |
| Representative Thickness (μ) | 50 | 50 | 30 | 50 | 30 | 30 |
| Tensile Strength (MD) (MPa) | 25 | 25 | 40 | 35 | 35 | 45 |
| Tensile Strength (TD) (MPa) | 20 | 20 | 30 | 30 | 25 | 35 |
| Tensile Elongation (MD) (%) | 550 | 550 | 750 | 850 | 555 | 800 |
| Tensile Elongation (TD) (%) | 810 | 790 | 1,000 | 950 | 800 | 1,000 |
| Young's Modulus (MD) (MPa) | 400 | 400 | 450 | 400 | 300 | 550 |
| Young's Modulus (TD) (MPa) | 500 | 450 | 550 | 450 | 300 | 650 |
| Adhesive Strength: PMMA Plate AVE (mN/25 mm) | 50 | 100 | 40 | 35 | — | 40 |
| Adhesive Strength: PC Board AVE (mN/25 mm) | — | — | 40 | 35 | 60 | 30 |
| Features | • Ideal for resin plates | | • Ideal for resin plates and optical films • Little change in adhesive strength | | • Ideal for polarizing-plate applications | |

| | TORETEC™ Medium-Adhesive Type | | | TORETEC™ High-Adhesive Type | |
|---|-------------------------------|-------------------------------------|--|-----------------------------|-----------------|
| Type Name | 7A62 | 7H52 | 7232 | 7461 | 7571 |
| Representative Thickness (μ) | 50 | 30 | 50 | 70 | 50 |
| Tensile Strength (MD) (MPa) | 60 | 75 | 30 | 35 | 35 |
| Tensile Strength (TD) (MPa) | 45 | 40 | 20 | 25 | 30 |
| Tensile Elongation (MD) (%) | 750 | 700 | 650 | 750 | 750 |
| Tensile Elongation (TD) (%) | 890 | 855 | 930 | 925 | 1,055 |
| Young's Modulus (MD) (MPa) | 550 | 550 | 450 | 200 | 400 |
| Young's Modulus (TD) (MPa) | 550 | 500 | 500 | 200 | 500 |
| Adhesive Strength: PMMA Plate AVE (mN/25 mm) | — | — | 180 | 320 | 400 |
| Adhesive Strength: PC Board AVE (mN/25 mm) | 170 | 80 | — | — | — |
| Features | • Heat resistant | • Heat resistant • Low pollution | • Ideal for light-guide-plate applications | • Excellent stretch | • High adhesive |

TORETEC™ Strong-Adhesive Type

Surface-protection film

TECHNICAL DATA

(The below are representative/measured values and not guaranteed values.)

Features

Surface-protection film that protects surfaces such as optical films and functional plastic plates. We offer a range of thickness, width, length and color options and can suggest a type to suit your needs.

| | TORETEC™ Strong-Adhesive Type | | | | |
|---|--|------|--|------|---|
| Type Name | R415A | R034 | R304C | R400 | R213 |
| Representative Thickness (μ) | 35 | 45 | 30 | 60 | 60 |
| Tensile Strength (MD) (MPa) | 60 | 50 | 50 | 40 | 20 |
| Tensile Strength (TD) (MPa) | 40 | 40 | 30 | 35 | 15 |
| Tensile Elongation (MD) (%) | 650 | 700 | 600 | 600 | 350 |
| Tensile Elongation (TD) (%) | 750 | 750 | 700 | 650 | 600 |
| Young's Modulus (MD) (MPa) | 630 | 600 | 500 | 550 | 250 |
| Young's Modulus (TD) (MPa) | 640 | 550 | 450 | 500 | 250 |
| Adhesive Strength: SUS Plate AVE (N/25 mm) | 2.3 | 2.7 | 1.4 | 0.8 | 4.8 |
| Features | • Ideal for use with textured resin plates or in optical-film applications | | • Ideal for light-guide-plate applications | | • Ideal for building-materials applications |