

# TYPICAL PROPERTY

**GRADE** 1.2M Lay -Flat GLS

**\*Raw Material** BOPA film

**Thickness BOPA** 12micron

**Adhesive** 18micron

**DESCRIPTION** Nylon film with copolymer adhesive. This film offers economy easy separation.

**APPLICATION** For one sided finishing applications on soft cover books, brochures, book jacket, box etc.

**VALIDITY OF THERMAL LAMINATING FILM**  
Use film within 10 months after produced.

**ENVIRONMENTAL CONDITION WHILE USING**  
Temperature : 24°C ± 20%  
Relative Humidity: 60% ± 20%

**STORAGE CONDITION**  
Temperature : 24°C ± 20%  
Relative Humidity: 60% ± 20%

## CONSTRUCTION

| Grade              | Surface | Thickness (Micron) | Width (mm) | Length (M) | Core Size (in) | Adhesive |
|--------------------|---------|--------------------|------------|------------|----------------|----------|
| 1.2M Lay -Flat GLS | GLS     | 30±6%              | Width±1    | 2000       | 3              | Inside   |

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| Properties       |                    |            | 1.2M Lay-Flat GLS | Unit    | Test Method |
|------------------|--------------------|------------|-------------------|---------|-------------|
| Tensile Strength | MD                 |            | Over 80.0         | Mpa     | ASTM D882   |
|                  | TD                 |            | Over 87.0         | Mpa     |             |
| Elongation       | MD                 |            | Less 135          | %       | ASTM D882   |
|                  | TD                 |            | Less 115          | %       |             |
| Haze             |                    |            | Less 1.8          | %       | ASTM D1003  |
| Gloss            | 45degree           |            | Over100.0         | %       | ASTM D2457  |
| Heat Shirinkage  | MD                 |            | Less 2.0          | %       | ASTM D1204  |
|                  | TD                 |            | Less 0.6          | %       |             |
| Dyne             | Corona treated     | EVA LAYER  | Over 44           | dyne/cm | ASTM D2578  |
|                  | Corona not treated | Nylon side | Over 38           | dyne/cm |             |

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**CosmoFilms Korea**