

'TORAY'
Innovation by Chemistry

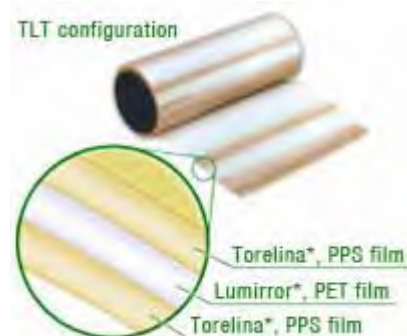
TLT CATALOGUE

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TLT

TLT* is a thermal-resistant, insulating material having a three-layer configuration as shown on the right. Combining outstanding electrical and mechanical properties as well as high thermal resistance with superior flexibility, TLT* is ideal for use as a thin electrical insulating material, and meets wide use in class F insulation systems. This material also enables customers to achieve greater working efficiency through its automated insertion ability and excellent processability.



Features of TLT*

Laminated film TLT* has excellent electrical properties, heat resistance, and mechanical properties. It is especially suited for applications requiring higher resistance to heat than PET film.

Processability of TLT*

As both Tolelina* and Lumirror* used for TLT* are biaxially oriented films, the TLT* can be processed in the same manner as regular PET film.

Applications of TLT*

Combining outstanding electrical and mechanical properties as well as high thermal resistance with superior flexibility, TLT* is ideal to be used as a thin electrical insulating material. Suitable applications include motor wedges, slot paper, liners, transformer interphase insulation, coil coating, insulation core, and barrier insulation. The same processing and mounting processes (including automatic insertion) as PET film can be used for TLT*.

TLT* Grades and Thickness

| Grade | Type | Thickness of each layer(μm) | | | Total actual thickness including adhesive layers(μm) |
|-------|------|-----------------------------|-----|-----|--|
| | | PPS | PET | PPS | |
| #50 | U | 16 | 12 | 16 | 58 |
| #75 | U | 12 | 50 | 12 | 88 |
| #100 | U | 12 | 75 | 12 | 113 |
| #130 | U | 16 | 100 | 16 | 146 |
| #150 | U | 16 | 125 | 16 | 171 |
| #220 | U | 16 | 188 | 16 | 234 |
| #240 | U | 16 | 210 | 16 | 256 |
| #280 | U | 16 | 250 | 16 | 296 |
| #330 | U | 16 | 300 | 16 | 346 |
| #380 | U | 16 | 350 | 16 | 388 |

1. We accept not responsibility for results obtained by the application of the information indicated and for the safety and suitability of the products, by itself or in combination with other products. Users are advised to perform their own tests to determine the safety and suitability of such product combination according to each of its purpose.

2. Refer to our MSDS (Material Safety Data Sheet) before use.

3. The publication is not to be taken as a license to operate under, or as a recommendation to infringe any patents