



Isotropic Polyester Film

(Both side untreated film)

SUPET S-400

Product Description

S-400 grade is Bi axially Oriented Transparent Polyester film with both side untreated. This film provides excellent isotropic properties. The Film possess good Mechanical, Surface & Thermal properties.

Product features

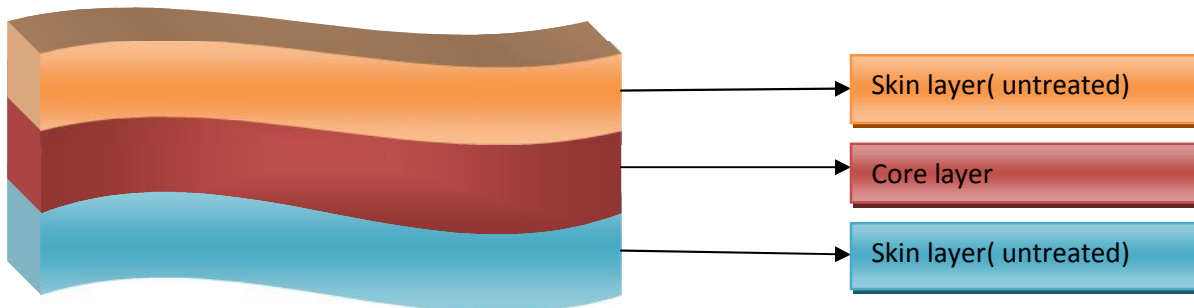
- ❖ Excellent mechanically uniform isotropic properties
- ❖ Dimensional stability
- ❖ Ensure excellent process ability

Product Applications

- ❖ This film is ideal for lidding application for cups ,tubes & trays
e.g Yogurt, Icecream, Dairy products, Mineral water, Instant noodles

Food Contact

This film complies with US FDA , EC directive & REACH regulation for food packaging.



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Technical Specification

| Properties | Unit | Test Method | Typical Values | | | |
|--------------------------------------|--------------------|--------------------|----------------|------|------|------|
| General Properties | | | | | | |
| Thickness | Micron | SPTM | 12 | 23 | 36 | |
| Yield | m ² /kg | SPTM | 59 | 31 | 20 | |
| Mechanical Properties | | | | | | |
| Tensile Strength (Min) | MD | Kg/cm ² | ASTM D 882 | 2100 | 2100 | 1900 |
| | TD | | | 2000 | 2000 | 1900 |
| Elongation at Break (Min) | MD | % | ASTM D 882 | 90 | 110 | 110 |
| | TD | | | 90 | 100 | 100 |
| Surface Properties | | | | | | |
| Coefficient of Friction (Max) | St. | - | ASTM D 1894 | 0.50 | 0.50 | 0.50 |
| | Dy. | | | 0.45 | 0.45 | 0.45 |
| Wetting Tension on untreated side | Dynes/cm | ASTM D 2578 | 44 | 44 | 44 | |
| Isotropic Properties | | | | | | |
| TS @ +45°/-45° | Ratio | SPTM | 0.6-1.4 | | | |
| Elongation@ +45°/-45° | Ratio | | 0.6-1.8 | | | |
| Optical Properties | | | | | | |
| Haze (Max) | % | ASTM D 1003 | 3.5 | 4.0 | 4.5 | |
| Transmittance(Min) | % | ASTM D 1003 | 88 | 88 | 88 | |
| Thermal Properties | | | | | | |
| Heat Shrinkage @150°C/30minute (Max) | MD | % | ASTM D 1204 | 2.4 | 2.4 | 2.4 |
| | TD | | | 0.4 | 0.4 | 0.4 |
| Barrier Properties | | | | | | |
| WVTR(38°C& 90%RH) | gm/m2/day | ASTM F 1249 | <40 | <25 | <22 | |
| OTR (23°C & 0 %RH) | cc/m2/day | ASTM D3985 | <135 | <75 | <55 | |

MD : Machine direction TD : Transverse direction SPTM : Sumilon Polyester Test Method

Storage & Handling

Rolls are covered by stretch wrap and which may have the chances to attract the dust particles. Use SUPET film on FIFO system and advised to rotate the film stock. The storage hall should be away from flame/ heated substances. Also rolls kept away from the bad weather conditions. The recommended temperature range is 24°C to 35°C with relative humidity of 55-60%. It is recommended that the film should not get exposed to direct Sunlight and water /moisture.

Disposal

Disposal of S-400 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-400 has been laminated, coated, printed or metallized, incineration with Energy Recovery is the most environmentally efficient recovery route. It can also be burned in an incinerator with normal refuse. The disposal method should comply with appropriate local and country.

Disclaimer

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. Sumilon Polyester Limited suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accepts any responsibility for the fitness of the product for any particular use.

TDS issued on 15/08/2019. All previous version of this grade are invalid.

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