# Chemically Coated Polyester Film

*(One side chemical coated & other side corona treated film)*

**SUPET S-204**

## Product Description

**S-204 grade** is a Bi axially Oriented Transparent polyester film with one side chemically coated & other side corona treated .The film possess good Mechanical, Surface & Thermal properties. The coated surface is excellent base for UV base ink & coating.

## Product features

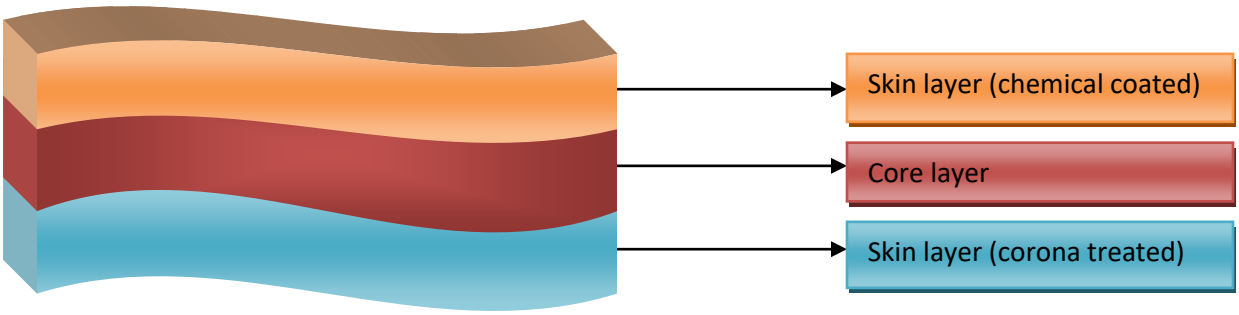
- Excellent surface for UV ink printing & lamination
- Sterilization, Pasteurization & Hot filled application
- Dimensional stability
- Excellent mechanical properties
- Ensure excellent process ability

## Product Applications

- Board lamination

## 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<br>Gauge | SITM | **8<br>32** | **10<br>40** | **12<br>48** | **15<br>60** | **19<br>76** | **23<br>92** | **36<br>144** | **50<br>200** | **75<br>300** |
| Yield | | $m^2/kg$ | SITM | 89 | 71 | 59 | 48 | 38 | 31 | 20 | 14 | 9.5 |
| Grammage | | $gm/m^2$ | SITM | 11.2 | 14.0 | 16.8 | 21.0 | 26.6 | 32.2 | 50.4 | 70.0 | 105.0 |
| Density | | $gm/cm^3$ | SITM | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| **Mechanical Properties** | | | | | | | | | | | | |
| Tensile Strength (Min) | MD | $Kg/cm^2$<br>Kpsi | ASTM D 882 | 2100<br>30 | 2100<br>30 | 2100<br>30 | 2100<br>30 | 2100<br>30 | 2100<br>30 | 1900<br>27 | 1900<br>27 | 1800<br>26 |
| | TD | | | 2000<br>28 | 2000<br>28 | 2000<br>28 | 2000<br>28 | 2000<br>28 | 2000<br>28 | 1900<br>27 | 1900<br>27 | 1800<br>26 |
| Elongation at Break (Min) | MD | % | ASTM D 882 | 90 | 90 | 90 | 90 | 90 | 110 | 110 | 110 | 120 |
| | TD | | | 90 | 90 | 90 | 90 | 90 | 100 | 100 | 100 | 110 |
| **Surface Properties** | | | | | | | | | | | | |
| Coefficient of Friction (Max) | St. | - | ASTM D 1894 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.45 |
| | Dy. | | | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.40 |
| Wetting Tension | Coated side | Dynes/cm | ASTM D 2578 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| | Treated side | | | 52+ | 52+ | 52+ | 52+ | 52+ | 52+ | 52+ | 52+ | 52+ |
| **Optical Properties** | | | | | | | | | | | | |
| Haze (Max) | | % | ASTM D 1003 | 3.0 | 3.0 | 3.5 | 3.5 | 3.5 | 4.0 | 4.5 | 5.0 | 7.0 |
| Transmittance(Min) | | % | ASTM D 1003 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| **Thermal Properties** | | | | | | | | | | | | |
| Heat Shrinkage @150°C/30minute (Max) | MD | % | ASTM D 1204 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | TD | | | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| **Barrier Properties** | | | | | | | | | | | | |
| WVTR (38°C& 90%RH) | | $gm/m^2/d$<br>$gm/100in^2/d$ | ASTM F 1249 | <65<br><4.2 | <45<br><2.9 | <40<br><2.6 | <35<br><2.3 | <30<br><1.9 | <25<br><1.6 | <22<br><1.4 | <18<br><1.2 | <15<br><1.0 |
| OTR (23°C & 0 %RH) | | $cc/m^2/day$<br>$cc/100in^2/d$ | ASTM D3985 | <145<br><9.4 | <135<br><8.7 | <135<br><8.7 | <120<br><7.7 | <95<br><6.1 | <75<br><4.8 | <55<br><3.5 | <45<br><2.9 | <35<br><2.3 |

**MD:** Machine direction **TD:** Transverse direction **SITM:** Saj Industries Test Method.

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## 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 is below 35°C with relative humidity of 55-60%. It is recommended that the film should not get exposed to direct Sunlight and water /moisture. This film is suitable for use one year from the date of manufacturing if store in recommended storage condition, afterward Sumilon will not accept any responsibility.

## Disposal

Disposal of S-204 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-204 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. Saj Industries Pvt. Ltd. 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 05.04.2023. All previous version of this grade are invalid.**

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