

OptiPrint™ Synthetic Paper OPT-SYTP Technical Data Sheet

Description and Applications

OptiPrint™ Synthetic Paper OPT-SYTP combines the premium aesthetics of fine paper with long lasting durability of advanced polymer engineering. Made from high polypropylene, it offers exceptional water resistance, tear strength and dimensional stability, making it a reliable alternative to traditional paper in both indoor and outdoor applications. OptiPrint™ Synthetic Paper features a silky smooth, high energy surface with a subtle, paper like tactile feel, neither too glossy or plasticky – providing an elegant texture that enhances print appearance and handling comfort. Its high opacity and smooth finish ensures crisp ink definition and vibrant color reproduction under offset, UV screen printing process. Being less ductile, it provides superior die cutting precision with clean and burr-free edges making it also ideal for electronics & semiconductors spacer applications

Incorporating UV stabilizers with its inherent chemical and water resistance characteristics, OptiPrint™ Synthetic Paper OPT-SYTP is able to withstand a wide range of environmental conditions without noticeable degradation.

Typical Property Values

| Property | Test Method | | Unit | mm | | | | | | | |
|---------------------|-------------|----|-----------------|------------------------|-----|------|------|--------|-----|-------|------|
| | | | | 0.25 | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 |
| Tolerance | Micrometer | | % | +/- 5 | | | | | | +/- 4 | |
| Density | ASTM D792 | | g/cm³ | 1.2 +/- 0.05 | | | | | | | |
| Transmittance | ASTM D1003 | | % | ≤ 16 | 14 | | ≤ 14 | 12 | | 10 | ≤ 10 |
| Whiteness | ASTM E313 | | % | ≥ 85 | | | | | | | |
| Tensile Strength | ASTM D638 | MD | psi | ≥ 3000 | | | | | | | |
| | | TD | psi | ≥ 2500 | | | | ≥ 2300 | | | |
| Elongation | ASTM D638 | MD | % | ≥ 350 | | | | ≥ 200 | | ≥ 100 | |
| | | TD | % | ≥ 20 | | | | | | ≥ 10 | |
| Surface Tension | ASTM D2578 | A | Dyn/cm | ≥ 42 | | | | | | | |
| | | B | Dyn/cm | ≥ 42 | | | | | | | |
| Roughness | JIS-8060 | A | u ^{II} | 35 - 55 | | | | | | | |
| | | B | u ^{II} | 25 - 60 | | | | | | | |
| Gloss @ 60° | ASTM D523 | A | % | 2 - 5 | | | | | | | |
| | | B | % | 2 - 5 | | | | | | | |
| Surface Resistivity | ASTM D257 | | Ω/cm² | ≥ 9 x 10 ¹² | | | | | | | |

Tenopex Plastics Co., Ltd

Unit 101, Building 2, No. 136, Hua Xia Road Qiaotou Town,
Dongguan City, Guang Dong Province, China 523532
(86) 138 25753516 marketing@tenopexplastics-cn.cn
www.tenopexplastics.com

Global Sales Office

(852) 6888 0563 helen.koh@optimaplustgroup.com
(65) 87267516 helen.koh@optimaplustgroup.com

These are typical properties and are not intended for specifications purposes. If minimum certifiable properties are required, please contact your local sales representative. Reported values are based on 0.25mm thickness film unless otherwise noted.

Each user is responsible for making its own determination as to the suitability of Tenopex's products, services and recommendations for the user's particular use through appropriate end-use testing and analysis. Although any information or technical recommendation will be given without warranty nor guarantee nor implied, that the results indicated herein are obtained under end-use conditions. Except as provided in seller's standard conditions of sale, seller shall not be responsible for any loss resulting from any uses of its products or services described herein.