

OptiPrint™ Stone Paper STP-RPD Thin Paper Series Technical Data Sheet

Description and Applications

OptiPrint™ Stone Paper STP-RPD is a thin gauge mineral-based printing substrate composed of 80% calcium carbonate CaCO_3 bonded with 20% high density polyethylene HDPE as thermoplastic binder. This unique composition creates a smooth, paper-like material that is entirely tree-free, waterproof and tear resistant – offering the aesthetic and tactile feel of premium paper while delivering the durability of engineered polymer films.

With available thickness ranging 0.08mm to 0.2mm, STP-RPD Series combines high opacity, excellent whiteness and superior dimensional stability even under humid conditions. Its surface ensures outstanding ink adhesion with offset, flexographic without surface treatment.

Designed as a sustainable alternative to wood pulp paper, OptiPrint™ Stone Paper is non toxic, chlorine free and recyclable, meeting ROHS, REACH and EN71 compliance standards. It is ideal for tags, labels, inserts, brochures where print quality, durability and branding for environmental responsibility are essential

Typical Property Values

Property		Test Method	Units	Value
Density		ASTM D792	g/cm ³	1.2 +/- 5%
Base Weight	80um thickness	JIS P 8124	g/m ²	96
	90um thickness			100
	100um thickness			120
	120um thickness			144
	140um thickness			168
	160um thickness			192
	180um thickness			216
	200um thickness			240
Whiteness		TAPPI T-525	%	≥ 80
Gloss		TAPPI –T-480	%	< 6
Opacity		TAPPI T-425	%	≥ 84
Roughness		TAPPI T-555	um	< 2
CV Value		TAPPI T-527	%	5
Dyne Level		ISO 8296	Dyn/cm	≥ 38

Compatible Printing Process :

- Web/Sheet OffSet Lithographic
- UV Web/Sheet Offset Lithographic
- Rotary
- Relief
- Letterpress
- Flexographic
- Gravure
- Digital (Latex / Solid Ink)
- Screen Printing

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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 0.23mm thickness film unless otherwise noted.

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