



新莱福

NEWLIFE
NEW MATERIAL

Flexstone® Eco-Material

MANUFACTURER

NEWLIFE NEW MATERIAL

NEWLIFE FLEXSTONE ECO-MATERIAL SPECIFICATION

FLEXSTONE ECO-MATERIAL FOR OFFSET PRINTING

Edition: A0 NO: NMEQS-MACO 293

Flexstone Eco-material is an emerging printing substrate that offers distinct environmental benefits, as it replaces wood pulp with calcium carbonate mineral powder, eliminating tree consumption and process water usage during production. In terms of physical properties, the material provides balanced flexibility and mechanical strength, with good heat resistance suitable for high-temperature printing processes. Its specially engineered coating ensures excellent ink adhesion, while the warm white shade—combined with outstanding opacity—faithfully reproduces the tonal range and color fidelity of high-resolution images. Additionally, its inherent water resistance makes it a durable and functional choice for applications such as outdoor posters, washable labels, and restaurant menus, where both performance and longevity are required.

PART NO. AND PHYSICAL DATA:

PART NO.	THICKNESS	Density	Weight (G/M2)	Gloss (°)	Whiteness (wb)	Opacity (%)	Elongation	Tensile Strength
FS-2K15	0.15mm / 6mil	1.0	150±10	4-6/9-12	≥82	≥90	30%-60%	15-20
FS-2K20	0.2mm / 8mil	1.0	200±10	4-6/9-12	≥82	≥95	30%-60%	15-20
FS-2K25	0.25mm / 10mil	1.0	250±13	4-6/9-12	≥82	≥95	30%-60%	15-20
FS-2K30	0.3mm / 12mil	1.0	300±15	4-6/9-12	≥84	≥95	30%-60%	15-20

Relative high temperature operating ranges:

Long term (days) 80°C/176°F

Short term (minutes) 100°C/212°F

PART NO.	THICKNESS	Density	Weight (G/M2)	Gloss (°)	Whiteness (wb)	Opacity (%)	Elongation	Tensile Strength
FG-2K15	0.15mm / 6mil	1.4	210±10	4-6/9-12	≥82	≥85	30%-60%	15-20
FG-2K20	0.2mm / 8mil	1.4	280±10	4-6/9-12	≥82	≥90	30%-60%	15-20
FG-2K25	0.25mm / 10mil	1.4	350±13	4-6/9-12	≥82	≥90	30%-60%	15-20
FG-2K30	0.3mm / 12mil	1.4	420±15	4-6/9-12	≥84	≥90	30%-60%	15-20

Relative high temperature operating ranges:

Long term (days) 80°C/176°F

Short term (minutes) 120°C/248°F

PRINTING INDEX:

- compatible
Δ testing required
× not compatible

HP INDIGO	DRY TONER	UV CURABLE	OFFSET/FLEXO	SCREEN PRINT
×	Δ	○	○	○

PROCESS AND STORAGE:

- Working condition: temperature 15°C/59°F to 30°C/86°F, and relative humidity 30% to 60%.
- Application condition: temperature -20°C/-4°F to 60°C/140°F, relative humidity 20% to 80%. Temperature variability within 30min should be less than 15°C difference.
- Storage condition: In original box out of direct sunlight, in temperature 10°C/50°F to 35°C/95°F, relative humidity 20% to 70%.
- Shelf life: 12 months under storage condition. Unfinished material should be seal-packed.