



新莱福

NEWLIFE
NEW MATERIAL

Flexstone® Eco-Material

MANUFACTURER

NEWLIFE NEW MATERIAL

NEWLIFE FLEXSTONE ECO-MATERIAL SPECIFICATION

FLEXSTONE ECO-MATERIAL FOR DIGITAL PRESS PRINTING

Edition: A0 NO: NMEQS-MACO 298

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.

PHYSICAL DATA:

Flexstone Eco-material, non-adhesive, 2-side printable

Size: 460x320mm, 480x330mm

PART NO.	Thickness	Density	Weight (G/M2)	Gloss (°)	Whiteness (wb)	Opacity (%)	Printability
FG-2I20	0.20mm / 8mil	1.4	280±28	3-8	≥82	≥90	○ HP Indigo ○ Dry Toner ○ UV Curable ○ Offset ○ Screen Print
FG-2I25	0.25mm / 10mil	1.4	350±35	3-8	≥82	≥90	
FG-2I30	0.30mm / 10mil	1.4	420±42	3-8	≥82	≥90	
FG-2I35	0.35mm / 13.8mil	1.4	490±49	3-8	≥82	≥90	

Flexstone Eco-material back with adhesive, one side printable

Size: 460x320mm, 480x330mm

PART NO.	Surface Thickness	Total Thickness	Weight (G/M2)	Gloss (°)	Whiteness (wb)	Opacity (%)	Printability
FG-I15-PSA	0.15mm / 6mil	0.25mm / 10mil	310±31	3-8	≥82	≥90	○ HP Indigo ○ Dry Toner ○ UV Curable ○ Offset ○ Screen Print
FG-I20-PSA	0.20mm / 8mil	0.30mm / 12mil	380±38	3-8	≥82	≥90	

Relative high temperature operating ranges:

Long term (days) 80°C/176°F

Short term (minutes) 120°C/248°F

ADHESION INFORMATION:

PSA is a middle tack permanent adhesive. With medium initial adhesion and non-carrier design, PSA adheres on mostly smooth surface easily, and sticks firmly after fixed and not removable.

ADHESION DATA:

STATIC SHEARING (HOLDING POWER)	25mm×25mm areas hang 0.5kg	without slide in 24 hours
INITIAL ADHESION ROLLING BALL	GB/T4852-2002 8-10#steel ball	≤100mm

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 and used up in 1 month.