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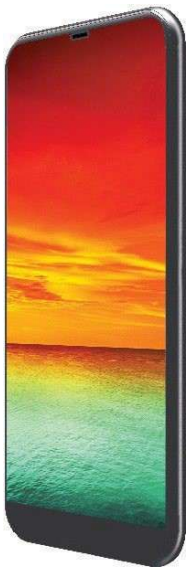
Technical Data | May 2026

3M™ Contrast Enhancement Film (CEF06XXN/OCA 826XN Series)

- 3M film CEF0602N/3M OCA 8262N
- 3M film CEF0604N/3M OCA 8264N
- 3M film CEF0607N/3M OCA 8267N
- 3M film CEF0608N/3M OCA 8268N
- 3M film CEF0610N/3M OCA 82610N



Product Description

3M™ Contrast Enhancement Film (CEF06XXN/OCA 826XN Series) are specialized optically clear adhesives offering clarity and adhesion to various transparent display substrates. 3M film CEF06XXN is a bare ITO compatible and easy to convert adhesive recommended for plastic cover lens to sensor bonding. No UV curing required.

Key Features

- High durability in reliability testing on PC/PMMA
- 3M film CEF06XXN Series products are die cuts of film
- 3M OCA 826XN Series products are available in roll good form

Product Construction

Product	3M™ film CEF0602N (OCA 8262N)	3M™ film CEF0604N (OCA 8264N)	3M™ film CEF0607N (OCA 8267N)	3M™ film CEF0608N (OCA 8268N)	3M™ film CEF0610N (OCA 8260N)
Adhesive Type:	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic
Adhesive Carrier:	None	None	None	None	None
Approximate Thickness:					
Release Liner:	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester
Adhesive:	50 µm (2.0 mils)	100 µm (4.0 mils)	175 µm (7.0 mils)	200 µm (8.0 mils)	250 µm (10.0 mils)
Release Liner:	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester	50 µm (2.0 mils) Clear Polyester

The 3M family of optically clear adhesives for electronic displays are usually available in two forms. 3M OCA come in roll good form. 3M Contrast Enhancement Films (CEF) are available in die-cut form.

3M™ Contrast Enhancement Film (CEF06XXN/OCA 826XN Series)
Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Environmental Testing:

The following environmental tests were conducted in the 3M laboratory under the conditions specified without any appreciable deterioration in visible appearance (no bubbles, delamination, whitening, etc.). Sample construction is optical glass/3M film CEF06XXN/PC or PMMA or PET (tested separately).

	Condition	Duration
High Temp/Humidity-1	+65°C/90%RH	800 hours

Peel Adhesion:

ASTM D3330 modified, 180 degree peel from float glass, 1cm wide peel strips, 12in/min (305 mm/min), 2.0 mil polyester backing, 3M film CEF06XXN.

	Peel Adhesion to Glass		Peel Adhesion to PC		Peel Adhesion to PMMA	
Dwell Time	20 min dwell at 23°C/50%RH	3 day dwell at 23°C/50%RH	20 min dwell at 23°C/50%RH	3 day dwell at 23°C/50%RH	20 min dwell at 23°C/50%RH	3 day dwell at 23°C/50%RH
Units	N/cm	N/cm	N/cm	N/cm	N/cm	N/cm
3M film CEF0602N	7.0	7.2	4.2	6.4	5.0	6.3
3M film CEF0604N	7.2	7.4	4.3	7.0	5.3	6.5
3M film CEF0607N	10.7	11.3	5.5	9.0	6.6	9.1
3M film CEF0608N	12.6	12.2	5.6	8.1	6.8	9.3

Color:

Ultra Scan Pro (Hunter Lab), ASTM E308, D65/10° 3M film CEF06XXN on optical glass.

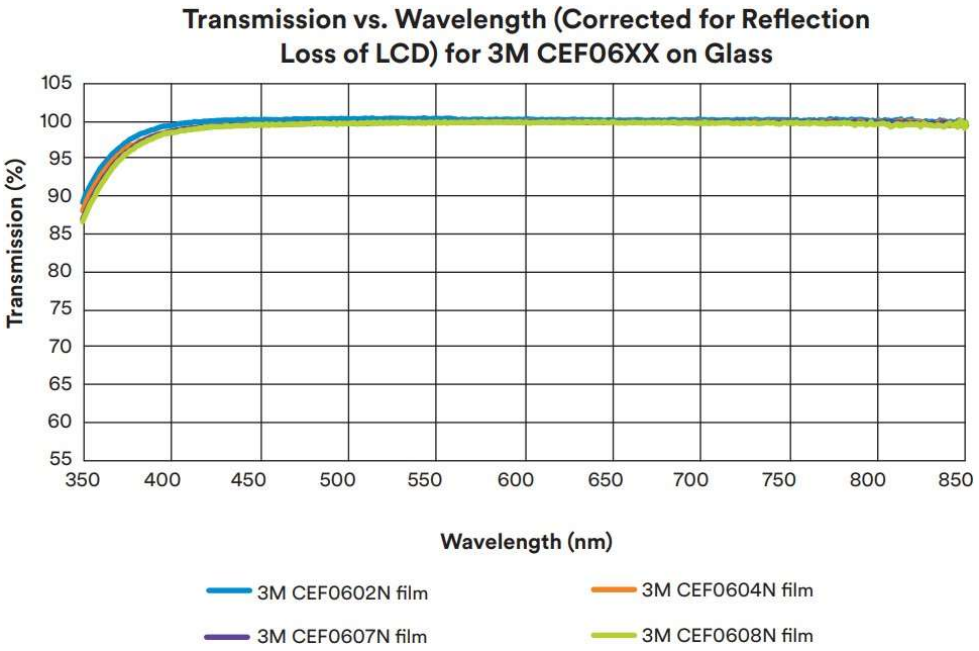
Color			
3M film CEF0602N	L* = 96.9	a* = -0.00	b* = 0.18
3M film CEF0604N	L* = 96.9	a* = -0.00	b* = 0.23
3M film CEF0607N	L* = 96.9	a* = -0.00	b* = 0.27
3M film CEF0608N	L* = 96.9	a* = -0.00	b* = 0.37

Refractive Index:

(+ 0.0005 Metricon measurements from standard deviation of ellipsometry) 3M film CEF06XXN.

3M™ film CEF06XXN		
405 nm	532 nm	633 nm
1.4968	1.4843	1.4792

3M™ Contrast Enhancement Film (CEF06XXN/OCA 826XN Series) Transmission Curve:



Haze:

Haze is measured according to ASTM D1003-92, 3M film CEF06XXN Series on optical glass.

3M™ film CEF0602N	3M™ film CEF0604N	3M™ film CEF0607N	3M™ film CEF0608N
0.1%	0.2%	0.2%	0.3%

Typical Electrical Properties at Room Temperature:

ASTM-D150-92. 3M film CEF06XXN.

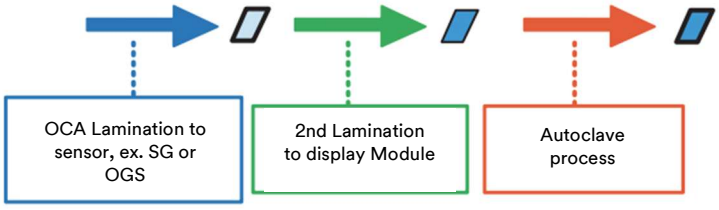
Dielectric Constant:

3M™ film CEF06XXN	
Frequency (kHz)	**Dielectric Constant**
100	5.67
500	5.06

3M™ Contrast Enhancement Film (CEF06XXN/OCA 826XN Series)

Suggested Lamination Process

Step 1: Remove secondary liner, and then laminate 3M film CEF06XXN to first adherent substrate by roller at room temperature
Recommendation: roller pressure 0.1 – 0.2 MPa, roller speed 0.5 – 1m/min
Step 2: Remove primary liner, and then laminate 3M film CEF06XXN/first adherent to second adherent by vacuum lamination (if rigid-to-rigid bonding
Recommendation: Vacuum condition < 50 Pa, pressure around 0.1 – 0.2 MPa
Step 3: Autoclave process recommendation: 30-60°C/3-5kgf/cm^2/20-30min



Storage

- Store in original packaging or plastic bag.
- Avoid applying pressure or resting objects on the product to prevent marking, denting, or deforming the surface.
- Wear gloves to prevent fingerprints or nail marks when handling.
- Product needs to be unpacked and handled in a clean-room facility.
- CEF should be properly stored at room temperature conditions of 22 ± 2°C and 50 ± 20% relative humidity.

Regulatory: For regulatory information about this product, contact your 3M representative.

3M™ Contrast Enhancement Film (CEF06XXN/OCA 826XN Series)

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