Radiant Light Film

CM592

Technical Data June, 2006

Product Description

3MTM Radiant Light Film CM592 is a premium grade multi-layer polymeric film. The polyester (PET) surface can be embossed, die cut, sheer slit, precision cut, surface treated, dyed, coated to be heat sealed, coated with adhesive, printed and extruded into plastics.

Performance Properties/ **Characteristics**

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

Property	Units	ASTM Test	Typical Value
Optical			
Transmissive Color (varies with viewing angle)			Cyan / Blue / Magenta
Reflective Color (varies with viewing angle)			Red / Gold
Transmission, normal angle		E1164-94 / E387-95	
L* (L-star)			66 to 92
a* (a-star)			-56 to -12
b* (b-star)			-43 to -1
Bandwidth (absorbs below 400 nm)		3M	
Left Band Edge	nm		590
Right Band Edge	nm		740
Usage Angle (color varies with angle)	degrees	3M	0 to 90

Typical Physical Properties

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

Units	ASTM Test	Typical Value
mils (µm)	3M	1.3 (33)
lb/in	D-882	> 20
%	D-882	> 60
%	3M	< 1.5
yd²/lb (m²/kg)		11.8 (21.8)
°C		125
in		56 or 28
yd		3,000
in		6 (paper)
# per roll		2
	mils (µm) Ib/in % % yd²/lb (m²/kg) °C in yd in	mils (µm) 3M lb/in D-882 % D-882 % 3M yd²/lb (m²/kg) °C in yd in

Features

- Reflective color film, depending on angle.
- Metal-free, non-corroding, non-conductive.
- Thermally stable, low shrinkage, maximum continuous use temperature up to 125°C.
- Suitable for applications requiring coverage of large surface areas, high clarity and brilliant visual appearance.

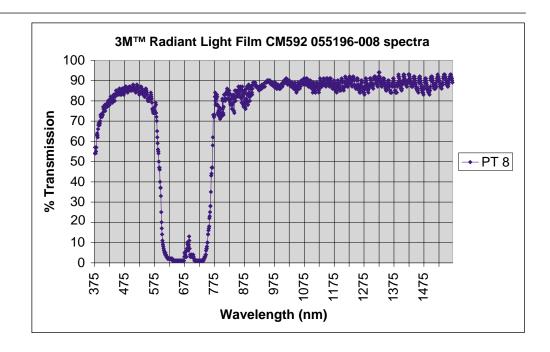
3M[™] Radiant Light Film

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Application Ideas

• Typical decorative applications include packaging, display, gift wrap, ornaments, custom thread, yarn, glitter, etc.

Typical Spectral Response



Product Use

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