



DCSO 1414

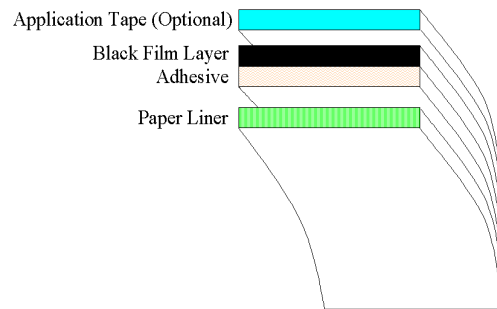
3M[®] High Performance Blackout Film

Technical Data Sheet

General Description

DCSO 1414 is a high performance blackout film which can be used in a wide range of interior and exterior applications like blackout of window frames, pillars, dash board and lids (metal or plastic) and window extensions. The film is characterised by low thickness and a sand embossed, matt black surface. It is highly conformable, scratch resistant, shows a high dimensional stability and has an excellent weathering performance. The adhesive provides a reliable bond under environmental stress like changing temperatures or moisture.

General Construction



Special Characteristics

The 3M[™] Blackout System offers excellent solutions with highly durable constructions meeting OEM specifications, advanced application and converting techniques and conformability to complex shapes and wraparounds. With MicroComply[™] adhesives low cycle times and high quality in appearance can be achieved.

General Properties

Surface	sand embossed
Colour	matt black
Application Tape	paper tape for easy recycling
Film	PVC
Adhesive	high and reliable bond to a wide variety of automotive surfaces under all environmental condition
Liner	paper liner for easy recycling
Shelf Life	6 months from date of receipt by customer when stored in original packaging at 22 ± 4 °C and at maximum moisture of 60 %

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Physical Properties (Typical Values)

Characteristics	Results	Test Method
Thickness (film+adhesive)	90 ± 20 µm	3M LS 034
Tensile Strength	2165 N/cm ²	3M LS 005
Elongation	154 %	3M LS 006
Dimensional Stability (Shrinkage) after 7d 80 °C		
- longitudinal / transversal	< 0,1 % / < 0,1 %	3M LS 026
after 30 min. 120 °C		
- longitudinal / transversal	< 0,1 % / < 0,1 %	3M LS 026

Performance Properties (Typical Values)

180° Peel Adhesion (Aluminium)	Results	Test Method
30 min. at SLC	6,0 N/cm	3M LS 007
72 h at SLC	8,6 N/cm	3M LS 007
7 d at 80 °C	10,9 N/cm	3M LS 008
7 d at 38 °C, 98 % moisture	11,4 N/cm	3M LS 010
Thermal Cycling	12,9 N/cm	3M LS 009
Surface Appearance	Results	Test Method
7 d at 80 °C	no changes	3M LS 019
7 d at 38 °C, 98 % moisture	no changes	3M LS 019
Thermal Cycling	no changes	3M LS 019
Resistance to Wax and Dewax	no changes	3M LS 024
Resistance to Fluids (25 rub cycles)		
- Windshield Washer Solvent	no changes	3M LS 023
- Antifreeze	no changes	3M LS 023
- Car Wash Detergent	no changes	3M LS 023
- Oil	no changes	3M LS 023
Gasoline Resistance (dip test)		
- Unleaded Super Fuel	no changes	3M LS 015
- Diesel Fuel	no changes	3M LS 015
2000 h Accelerated Weathering	no changes	SAE J 1960 / DIN 53387

Additional Information

This data sheet contains specific information about the product. General characteristics and application rules of high performance blackout films are available separately.

Important notice to purchaser

All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. Please ensure before using our product that it is suitable for your intended use. All questions of liability relating to this product are governed by the Terms of Sale subject, where applicable, to the prevailing law.



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Issue Date: 11/2002
Ref: TL-8248