

TECHNICAL DATA SHEET Premium Grade Vinyl CPM-200

This technical data refers to the following Lighthouse products:

 CPM201
 White
 CPM202
 Yellow
 CPM203
 Green

 CPM204
 Red
 CPM205
 Blue
 CPM206
 Orange

 CPM207
 Black
 CPM208
 Silver
 CPM212
 Clear

DESCRIPTION

Gloss calendered soft vinyl film with a permanent adhesive for use with the CPM-200 system. Medium term marking film designed for both indoor and outdoor applications such as, signs, labels, vehicle marking, and window graphics.

CONSTRUCTION

Face film: Calendered vinyl film 70/75 µm thick, cadmium free. Adhesive: High quality solvent based permanent acrylic adhesive.

Liner: Highly stable 135 gsm white Kraft paper.

TECHNICAL DATA

Film + adhesive ISO 534 Liner Film only Film + adhesive ISO 534 Liner 75 microns 0.1mm 17 microns / 135 gsm CPM202, CPM204, CPM206 CPM202, CPM204, CPM206 CPM202, CPM204, CPM206 CPM207, CPM208, CPM206 To microns 0.1mm 17 microns / 135 gsm CPM202, CPM204, CPM206 It N/25mm 18 N/25mm 18 N/25mm 19 N/25mm 19 N/25mm 19 N/25mm 1	TEOTIMOAE DATA			
Film + adhesive ISO 534 Liner Film only Film + adhesive ISO 534 Liner Film only Film + adhesive ISO 534 Liner Film only Film + adhesive ISO 534 Liner Face Material, 23°C (Typical values) DIN 53455-5 Tensile strength Elongation at break Adhesion, 23°C (Typical values) FTM 1 Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. Diminum Application Temperature Service Temperature Flammability ISO 3795 Resistance To Solvents And Chemicals Film only 75 microns 0.1mm 17 microns / 135 gsm CPM202, CPM204, CPM206 CPM207, CPM208, CPM206 CPM207, CPM208, CPM206 CPM207, CPM208, CPM206 CPM202, CPM204, CPM206 CPM207, CPM208, CPM206 CPM207, CPM208, CPM206 CPM207, CPM208, CPM206 CPM207, CPM204, CPM206 CPM202, CPM204, CPM206 CPM202, CPM204, CPM206 Adhesion, 23°C (Typical values) 14 N/25mm 18 N/25mm 19 N/25mm 1	Thickness			
Liner Film only Film + adhesive ISO 534 Liner Face Material, 23°C (Typical values) DIN 53455-5 Tensile strength Elongation at break Adhesion, 23°C (Typical values) FTM 1 Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. Diminum Application Temperature Service Temperature Flammability ISO 3795 Resistance To Solvents And Chemicals FII 17 microns / 135 gsm CPM202, CPM204, CPM206 A75 microns 0.1mm 17 microns / 135 gsm CPM202, CPM204, CPM206 A14 N/25mm 14 N/25mm 18 N/25mm 19 N/25mm 19 N/25mm 19 N/25mm 19 Vertical weathering in central European climate. Service Temperature Flammability ISO 3795 Self-extinguishing, applied on aluminium Water, water and detergent, alcohol: unaffected.				CPM201, CPM203, CPM205,
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Film only Film + adhesive ISO 534 Liner Face Material, 23°C (Typical values) DIN 53455-5 Tensile strength Elongation at break Adhesion, 23°C (Typical values) FTM 1 Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. Diminum Application Temperature Service Temperature Flammability ISO 3795 Film mability S25N/15mm ≥25N/15mm ≥25N/15mm ≥150% Adhesion, 23°C (Typical values) FTM 14 N/25mm 18 N/25mm 19 N/25mm CPM201 (White) & CPM207 (Black) 4 years CPM203, CPM205, CPM208, CPM21 3 years CPM202, CPM204, CPM206 Water, water and detergent, alcohol: unaffected.	Liner	17 microns / 13	35 gsm	
Film + adhesive ISO 534 Liner Face Material, 23°C (Typical values) DIN 53455-5 Tensile strength Elongation at break Adhesion, 23°C (Typical values) FTM 1 Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. Minimum Application Temperature Flammability ISO 3795 Resistance To Solvents And Chemicals				CPM202, CPM204, CPM206
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Face Material, 23°C (Typical values) DIN 53455-5 Tensile strength Elongation at break Adhesion, 23°C (Typical values) FTM 1 Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week PTM 14 A8 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. Diminum Application Temperature Minimum Application Temperature Flammability ISO 3795 Resistance To Solvents And Chemicals Tensile strength >25N/15mm >25N/15mm >150% 14 N/25mm 18 N/25mm 19 N/25mm 15 years CPM201 (White) & CPM207 (Black) 4 years CPM203, CPM205, CPM208, CPM21 3 years CPM202, CPM204, CPM206 Water, water and detergent, alcohol: unaffected.	Film + adhesive ISO 534			
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Tensile strength Elongation at break Adhesion, 23°C (Typical values) FTM 1 Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. Dimensional Stability (Typical values) FTM 14 Service Temperature Fammability ISO 3795 Resistance To Solvents And Chemicals >25N/15mm ≥150% 14 N/25mm 18 N/25mm 19 N/25mm 19 N/25mm 19 N/25mm 19 N/25mm 19 N/25mm 19 N/25mm 10 N/25mm	Face Material, 23°C (Typical values)			
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FTM 1 Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. 5 years CPM201 (White) & CPM207 (Black) 4 years CPM203, CPM205, CPM208, CPM21 3 years CPM202, CPM204, CPM206 Minimum Application Temperature 410°C Service Temperature Flammability ISO 3795 Self-extinguishing, applied on aluminium Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.	Elongation at break	≥150%		
Peel adhesion 180° on stainless steel 20 minutes 24 hours 1 week Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. 5 years CPM201 (White) & CPM207 (Black) 4 years CPM203, CPM205, CPM208, CPM21 3 years CPM202, CPM204, CPM206 Minimum Application Temperature +10°C Service Temperature Flammability ISO 3795 Self-extinguishing, applied on aluminium Water, water and detergent, alcohol: unaffected.	Adhesion, 23°C (Typical values)			
20 minutes 24 hours 1 week 18 N/25mm 19 N/25mm Dimensional Stability (Typical values) FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability Vertical weathering in central European climate. 5 years CPM201 (White) & CPM207 (Black) 4 years CPM203, CPM205, CPM208, CPM21 3 years CPM202, CPM204, CPM206 Minimum Application Temperature +10°C Service Temperature Flammability ISO 3795 Self-extinguishing, applied on aluminium Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.	1			
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Tower 19 N/25mm 19 N/25mm 19 N/25mm 14 14 14 15 15 15 15 15		14 N/25mm		
Dimensional Stability (Typical values)	24 hours	18 N/25mm		
FTM 14 48 hours at 70°C 25mm x 25mm sample on aluminium Durability 5 years CPM201 (White) & CPM207 (Black)		19 N/25mm		
48 hours at 70°C 25mm x 25mm sample on aluminium Durability 5 years CPM201 (White) & CPM207 (Black)				
on aluminium Durability Vertical weathering in central European climate. 5 years CPM201 (White) & CPM207 (Black) 4 years CPM203, CPM205, CPM208, CPM21 3 years CPM202, CPM204, CPM206 Minimum Application Temperature +10°C Service Temperature +40°C to +70°C Flammability ISO 3795 Self-extinguishing, applied on aluminium Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.	FTM 14			
DurabilityVertical weathering in central European climate.5 yearsCPM201 (White) & CPM207 (Black)4 yearsCPM203, CPM205, CPM208, CPM213 yearsCPM202, CPM204, CPM206Minimum Application Temperature+10°CService Temperature-40°C to +70°CFlammabilitySelf-extinguishing, applied on aluminiumResistance To Solvents And ChemicalsWater, water and detergent, alcohol: unaffected.	48 hours at 70°C 25mm x 25mm sample	<0.3%		
Vertical weathering in central European climate. 4 years CPM203, CPM205, CPM208, CPM21 3 years CPM202, CPM204, CPM206 Minimum Application Temperature +10°C Service Temperature -40°C to +70°C Flammability ISO 3795 Self-extinguishing, applied on aluminium Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.	on aluminium			
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3 years CPM202, CPM204, CPM206 Minimum Application Temperature +10°C Service Temperature -40°C to +70°C Flammability ISO 3795 Self-extinguishing, applied on aluminium Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.		4 years	CPM203,	CPM205, CPM208, CPM212
Service Temperature		3 years	CPM202,	CPM204, CPM206
Flammability ISO 3795 Self-extinguishing, applied on aluminium Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.				
ISO 3795 Self-extinguishing, applied on aluminium Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.		-40°C to +70°C		
Resistance To Solvents And Chemicals Water, water and detergent, alcohol: unaffected.	Flammability			
Applied as atainless steel 70 hours before Oil goodings offeeted (lifting a record a days)	Resistance To Solvents And Chemicals			
Applied on stainless steel /2 nours before Oil, gasoline: aπected (lifting around edges).	Applied on stainless steel 72 hours before	Oil, gasoline: affected (lifting around edges).		
immersion.	immersion.			
Shelf Life 2 years Stored at 15 to 25°C and ±50% relative	Shelf Life	2 years Stored at 15 to 25°C and ±50% relative		
(20°C – 50% relative humidity) humidity.	(20°C – 50% relative humidity)			
Compliance RoHS	Compliance	RoHS		
REACH		REACH		





TECHNICAL DATA SHEET Premium Grade Vinyl CPM-200

TECHNICAL DATA (Continued)

Compatible Ribbons for Printing	CPMR240, CPMR241, CPMR242, CPMR243
Standard Resin Ribbons.	CPMR244, CPMR245, CPMR246
Process Colour Resin Ribbons.	CPMR253, CPMR254, CPMR255, CPMR256

IMPORTANT NOTICE

All Lighthouse products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.

Published information concerning Lighthouse products is based on research, which the Company believes to be reliable, although such information does not constitute a warranty.

Because of the variety of uses of Lighthouse products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use. We recommend the purchaser conducts their own testing to determine the suitability for their required application. The purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.

All specifications are subject to change without prior notice.



