



Acetate 1mm Visor material

Product Information Sheet

Product : SV Mat 1 : 1000 micron

Applications

SV Mat 1 sheet perform well in optical tests and have extremely high optical transmission.

This information is given in good faith and is to be used only as a guide.

Safe Handling of Mat 1 Acetate

Status under REACH

Not dangerous. The REACH regulation (1907/2006) does not require an EU safety data sheet or other communication in the supply chain concern-ing substances of very high concern (SVHC list of 13 January, 2010). As these films are "articles" under REACH, rather than a "substance" or "preparation", this document is not a "safety data sheet" as defined in the regulation.

Physical-chemical data

(general information, see technical data tables below for data on specific Mat 1 Sheet)

The odorless film is chemically stable and resistant to attack by oils, weak acids and weak alkalis.

Physical hazards

Heavy gauges of Acetate can contain sharp edges. Proper protective gear, such as gloves, is recommended. Acetate film can create a slip hazard. Walking areas should be kept clear of spent visors

Health hazard data

No adverse health effects have been attributed to Acetate sheet.

In case of fire

The sheet will burn if exposed to flame, on its own it maybe self extinguishing, however if there is a secondary fuel or heat source, it may continue burning. Fire fighters should protect themselves from combustion and decomposition products that may include carbon monoxide, acetaldehyde and other toxic gases. Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists. Fire fighting extinguishing media include carbon dioxide, water spray, foam or dry chemical.

Dealing with molten film

If the film could be subjected to conditions releasing acetaldehyde, then adequate ventilation should be used to stay below the exposure limit. Skin contact with molten film causes burns (due to the heat). Appropriate clothing and heat resistant gloves can be used as protection. If contact occurs accidentally, cool quickly with cold water and have the burn treated by a physician.

Disposal and shipping information

Mechanical recycling is possible, provided a suitable collection scheme etc. were set up. Acetate sheet is not classified as hazardous material for the purposes of transport by road, inland waterway, sea, air or mail. Acetate 1.0mm does not have a Mar resistant surface treatment it combines low impact and low temperature resistance with optical clarity and can be utilized for visor production for operator safety.

Protective cling

The cling is clear both sides and is low tack static applied LDPE plain cling of our own design.

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Physical			
Density	ISO R 1183	g/cm ³	1,27
Rockwell hardness	ASTM 785	R scale	93
Shore hardness		D scale	74
Water absorption	DIN 53495	%	3,6
Refraction index	DIN 53491	nD20	1,47
Transmittance	EN 166	%	> 89
Light diffusion	EN 166	(cd/m ²)/lx	< 0,5
Thermal			
Thermal coefficient of expansion	DIN 53752	K ⁻¹ 10 ⁻⁶	115
Mechanical			
Increased robustness Ball drop test Ø22mm 5,1m/s (43gr)	EN 166	-	PASS
High speed particles	EN166	m/sec	Low 115
Tensile Impact	ASTM D1822	KJ/m ²	> 300
Electrical			
Tracking resistance (KC)	DIN 53480	V	>600
Dielectric constant	DIN 53483	-	
# 50Hz			5,5
#10 ⁶ Hz			4,2