



Hong Kong Government Recognized Service Supplier  
Approved Laboratory of The Woolmark Company

Members of:  
American National Standards Institute      Hong Kong Association of Certification Laboratories  
American Society for Testing and Materials      Hong Kong Toys Council  
British Standards Institute

**TEST REPORT**

NUMBER: HJ00207279

APPLICANT: TENIN OPTICAL MANUFACTURING LTD  
RM 10 12/F GOLDFIELD IND CTR  
NO 1 SUI WO RD FOTAN  
SHATIN  
NT HK  
ATTN: MS JOYCE WONG

DATE: Jan 29, 2004

**SAMPLE DESCRIPTION:**

ONE (1) PAIR OF SUBMITTED SAMPLE SAID TO BE :  
ITEM NAME : PLASTIC LENS.

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**TESTS CONDUCTED:**

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

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PREPARED AND CHECKED BY:  
FOR INTERTEK TESTING SERVICES HK LTD.



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**TESTS CONDUCTED**

**1    UV-400**

ASSESSMENT WAS MADE AGAINST A LEVEL OF 100% UV PROTECTION, IN WHICH THE SPECTRAL TRANSMITTANCE WAS EXAMINED WITHIN A RANGE OF 280nm - 400nm TO ENSURE THAT A TRANSMITTANCE VALUE OF 0.5% WAS NOT EXCEEDED.

**RESULT :**

WAVELENGTH (nm)	TRANSMITTANCE (%)	
	LEFT OCULAR	RIGHT OCULAR
280	<0.10	<0.10
285	<0.10	<0.10
290	<0.10	<0.10
295	<0.10	<0.10
300	<0.10	<0.10
305	<0.10	<0.10
310	<0.10	<0.10
315	<0.10	<0.10
320	<0.10	<0.10
325	<0.10	<0.10
330	<0.10	<0.10
335	<0.10	<0.10
340	<0.10	<0.10
345	<0.10	<0.10
350	<0.10	<0.10
355	<0.10	<0.10
360	<0.10	<0.10
365	<0.10	<0.10
370	<0.10	<0.10
375	<0.10	<0.10
380	<0.10	<0.10

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WAVELENGTH (nm)	TRANSMITTANCE (%)	
	LEFT OCULAR	RIGHT OCULAR
385	<0.10	<0.10
390	<0.10	<0.10
395	<0.10	<0.10
400	<0.10	<0.10

REMARK : < = LESS THAN

COMMENT : THE SUBMITTED SAMPLE WAS CONSIDERED ACCEPTABLE TO MAKE  
A CLAIM OF "UV-400" PROTECTION, THE CRITERIA OF WHICH  
WAS MENTIONED ABOVE.

DATE SAMPLE RECEIVED : JAN 20, 2004

TESTING PERIOD : JAN 20, 2004 TO JAN 28, 2004

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END OF REPORT

**Sunglasses Certification Report**

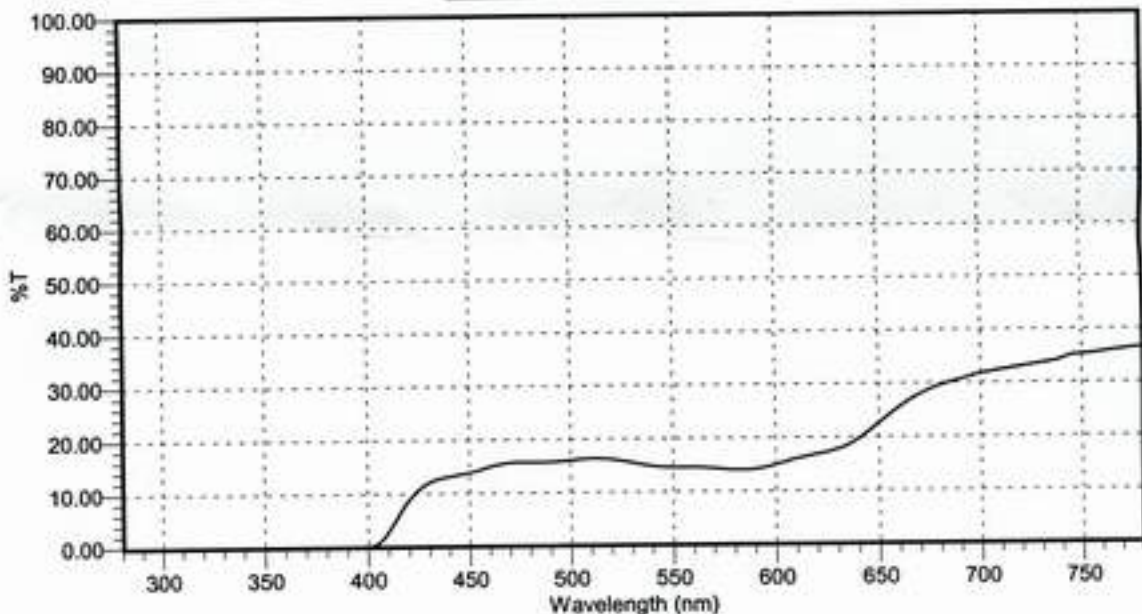
**Standard: EN 1836, 2005**



Sample Name: SMOKE

Item	Value	Requirement	Result
Filter Category	3		
Luminous Transmittance Tv	15.37%	18% - 8%	PASS
Q, Red	1.15	>= 0.80	PASS
Q, Yellow	1.02	>= 0.80	PASS
Q, Green	0.99	>= 0.80	PASS
Q, Blue	1.07	>= 0.40	PASS
Tmax UVB (280 - 315nm)	0.00%	<= 1.54% (0.1Tv)	PASS
Tmax UVA (315 - 350nm)	0.00%	<= 7.69% (0.5Tv)	PASS
Tmin (500 - 650nm)	13.99%	>= 3.07% (0.2Tv)	PASS
Tsuva (315 - 380nm)	0.00%	<= 7.69% (0.5Tv)	PASS
Tsuvb (280 - 315nm)	0.00%		
Tsuv (280 - 380nm)	0.00%		
Tsb (380 - 500nm)	13.00%		

**Transmittance Spectrum**



**Spectrum Data:**

nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T
280	0.000	290	0.000	300	0.000	310	0.000	320	0.000	330	0.000	340	0.000	350	0.000
360	0.000	370	0.000	380	0.000	390	0.000	400	0.041	410	2.858	420	8.798	430	12.094
440	13.163	450	13.860	460	14.959	470	15.693	480	15.727	490	15.772	500	16.083	510	16.353
520	16.185	530	15.550	540	14.854	550	14.564	560	14.537	570	14.343	580	14.008	590	14.144
600	14.973	610	16.076	620	16.898	630	17.803	640	19.704	650	22.674	660	25.656	670	27.973
680	29.592	690	30.651	700	31.729	710	32.417	720	33.031	730	33.625	740	34.358	750	35.223
760	35.645	770	36.148	780	36.588										