THERMOFORMED PC LENS – LIGHT GRAY – G-35

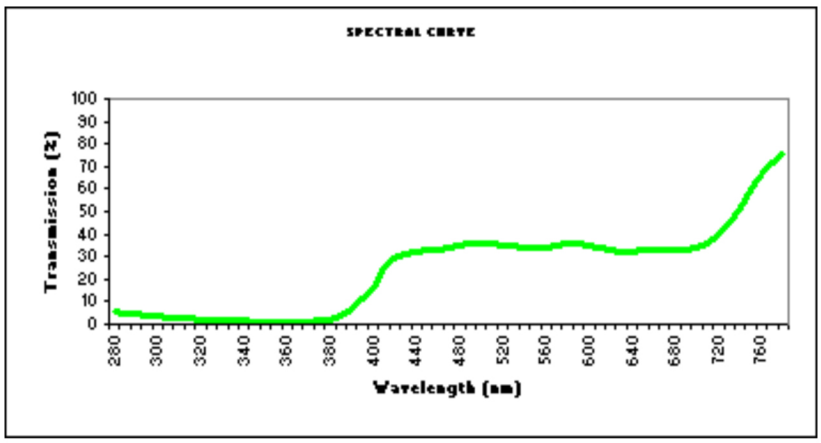
COLOR / TRANSMISSION SPECIFICATIONS

Standard: ANSI Z80.3 - 2001 (280 - 780nm)

Item	Requirement	Value		Result
Luminous Transmittance (Tv)	≥ 8%	34.59		**PASS**
Primary Function	Range (Tv)			
Cosmetic Lens	> 40%			
General Purpose	8 - 40%	**GENERAL PURPOSE**		
Special Purpose	3 - 8%			
Mean Transmittance	Normal use (max)	Prolonged Exposure (max)	Value	
Mean UVB Tran. (290-315nm)	4.32%	1.00%	0.84%	**PASS PROLONGED**
Mean UVA Tran. (315-380nm)	34.59%	17.30%	0.35%	**PASS PROLONGED**
Traffic Signal Color Limits		x	y	
Yellow Signal		0.5741	0.4247	**PASS**
Green Signal		0.2081	0.4075	**PASS**
Average Daylight		0.3146	0.3377	**PASS**
Traffic Signal Transmittance				
Red Signal	≥ 8%	32.5		**PASS**
Yellow Signal	≥ 6%	34.4		**PASS**
Green Signal	≥ 6%	34.7		**PASS**
Minimal Spectral Transmittance	≥ 0.2 T_v	31.99		**PASS**
Polarizer Type				
Type 1	RtV > 20			**PASS**
Type 2	RtV > 8			**PASS**

Color/Transmission

CIE Lab1931 2° obs, illuminant C	Color Code	G35
Test	Value	Result
%T	34.59	**PASS**
L*	65.43	**PASS**
a*	-2.39	**PASS**
b*	2.57	**PASS**
Polarizing Efficiency%	>90%	**PASS**



Standard: EN 1836:1997 (280 - 780nm)

Item	Requirement	Value		Result
Luminous Transmittance (Tv)	≥ 8%	34.60		**PASS**
Filter Category		Range of Luminous Transmission		
0	80 - 100%			
1	43 - 80%			
2	18 - 43%	**CATEGORY 2**		
3	8 - 18%			
4	3 - 8%			
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE	
t SUV (315-350nm)	34.60%	17.30%	1.88%	**PASS**
t SUVA (315-380nm)	34.60%	17.30%	1.75%	**PASS**
t SUVB (280-315nm)	3.46%	3.46%	2.99%	**PASS**
Recognition of Signal Lights	Q (t sign/ t V)			
Red [Q] Factor	≥ .80	0.97		**PASS**
Yellow [Q] Factor	≥ .80	0.99		**PASS**
Green [Q] Factor	≥ .60	1.00		**PASS**
Blue [Q] Factor	≥ .40	1.00		**PASS**
Solar Blue Light Transmittance		32.14		

Standard: AS/NZS 1067:2003 (280 - 780nm)

Item	Requirement	Value		Result
Luminous Transmittance (Tv)	≥ 8%	34.60		**PASS**
Filter Category		Range of Luminous Transmission		
0	80 - 100%			
1	43 - 80%			
2	18 - 43%	CATEGORY 2		
3	8 - 18%			
4	3 - 8%			
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE	
t SUV (315-350nm)	34.60%	17.30%	1.88%	**PASS**
t SUVA (315-400nm)	34.60%	17.30%	2.52%	**PASS**
t SUVB (280-315nm)	3.46%	3.46%	2.99%	**PASS**
Recognition of Signal Lights	Q (t sign/ t V)			
Red [Q] Factor	≥ .80	0.97		**PASS**
Yellow [Q] Factor	≥ .80	0.99		**PASS**
Green [Q] Factor	≥ .60	1.00		**PASS**
Blue [Q] Factor	≥ .40	1.00		**PASS**
Minimum Spectral Transmittance	≥ 0.2 T_v	31.99		**PASS**
Solar Blue Light Transmittance		32.21		