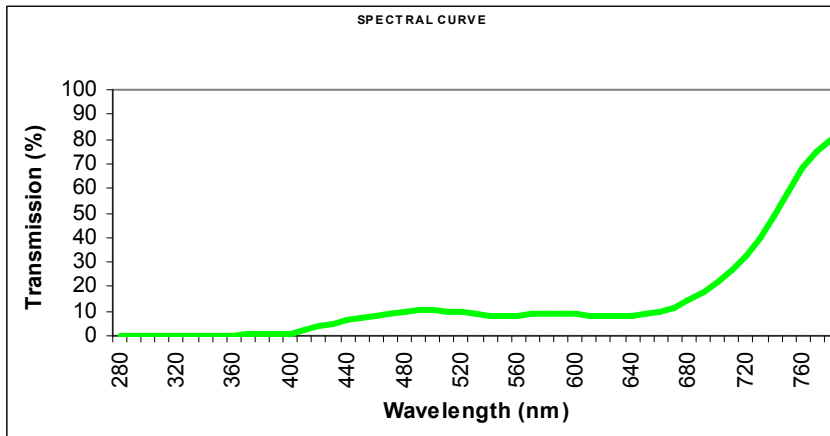


# YS AMERICA THERMOFORMED PC LENS –GRAY SMOKE DARK (GSD)

## COLOR / TRANSMISSION SPECIFICATIONS

Standard: ANSI Z80.3 - 2001 (280 - 780nm)				
Item	Requirement	Value	Result	
Luminous Transmittance (Tv)	≥ 8%	9.2	<b>PASS</b>	
Primary Function	Range (Tv)			
Cosmetic Lens	> 40%			
General Purpose	8 - 40%	<b>GENERAL PURPOSE</b>		
Special Purpose	3 - 8%			
Mean Transmittance	Normal use (max)	Prolonged Exposure (max)	Value	
Mean UVB Tran. (290-315nm)	1.11%	1.00%	0.63%	<b>PASS PROLONGED</b>
Mean UVA Tran. (315-380nm)	8.88%	4.44%	0.25%	<b>PASS PROLONGED</b>
Traffic Signal Color Limits		x	y	
Yellow Signal		0.5795	0.4193	<b>PASS</b>
Green Signal		0.2032	0.4231	<b>PASS</b>
Average Daylight		0.3197	0.3560	<b>PASS</b>
Traffic Signal Transmittance				
Red Signal	≥ 8%	9.1		<b>PASS</b>
Yellow Signal	≥ 6%	8.7		<b>PASS</b>
Green Signal	≥ 6%	9.0		<b>PASS</b>
Minimal Spectral Transmittance	≥ 0.2 Tv	8.05		<b>PASS</b>
Polarizer Type				
	Type 1	RtV > 20	33.33	<b>PASS</b>
	Type 2	RtV > 8		<b>PASS</b>

Color/Transmission		
CIE Lab1931 2° obs, illuminant C	Color Code	GSD
Test	Value	Result
%T	9.2	<b>PASS</b>
L*	35.76	<b>PASS</b>
a*	-3.9	<b>PASS</b>
b*	5.5	<b>PASS</b>
PE%	>98%	<b>PASS</b>



Standard: EN 1836:1997 (280 - 780nm)				
Item	Requirement	Value	Result	
Luminous Transmittance (Tv)	≥ 8%	9.2	<b>PASS</b>	
Filter Category			Range of Luminous Transmission	
0	80 - 100%			
1	43 - 80%			
2	18 - 43%			
3	8 - 18%	<b>CATEGORY 3</b>		
4	3 - 8%			
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE	
t SUV (315-350nm)	8.89%	4.44%	1.44%	<b>PASS</b>
t SUVA (315-380nm)	8.89%	4.44%	1.27%	<b>PASS</b>
t SUVB (280-315nm)				
Recognition of Signal Lights	Q (t sign/ t V)			
Red [Q] Factor	≥ .80	0.99		<b>PASS</b>
Yellow [Q] Factor	≥ .80	0.98		<b>PASS</b>
Green [Q] Factor	≥ .60	1.01		<b>PASS</b>
Blue [Q] Factor	≥ .40	1.10		<b>PASS</b>
Solar Blue Light Transmittance		6.92		

Standard: AS/NZS 1067:2003 (280 - 780nm)				
Item	Requirement	Value	Result	
Luminous Transmittance (Tv)	≥ 8%	9.2	<b>PASS</b>	
Filter Category			Range of Luminous Transmission	
0	80 - 100%			
1	43 - 80%			
2	18 - 43%			
3	8 - 18%	<b>CATEGORY 3</b>		
4	3 - 8%			
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE	
t SUV (315-350nm)	8.89%	4.44%	1.44%	<b>PASS</b>
t SUVA (315-400nm)	8.89%	4.44%	1.20%	<b>PASS</b>
t SUVB (280-315nm)				
Recognition of Signal Lights	Q (t sign/ t V)			
Red [Q] Factor	≥ .80	0.99		<b>PASS</b>
Yellow [Q] Factor	≥ .80	0.98		<b>PASS</b>
Green [Q] Factor	≥ .60	1.01		<b>PASS</b>
Blue [Q] Factor	≥ .40	1.10		<b>PASS</b>
Minimum Spectral Transmittance	≥ 0.2 Tv	8.05		<b>PASS</b>
Solar Blue Light Transmittance		6.94		