

## SUPER UV TEST

Measurement Method Used:

UV Equipment: IWASAKI Accelerated UV Testing Apparatus  
EYE Super UV Tester SUV-W151

Test: SUV Irradiation at 160mW/cm<sup>2</sup>  
→ Approx. 66 hours test duration is equivalent of 1 yr. UV in Tokyo area  
Applied UV for 8 hours, rest 30min, Condensation 4 hours  
Repeat this process continuously

Glossiness: Used Suga Digital Glossiness Tester  
Tested at Incident Angle 60 deg. At 10 points  
Took average of 8 middle points

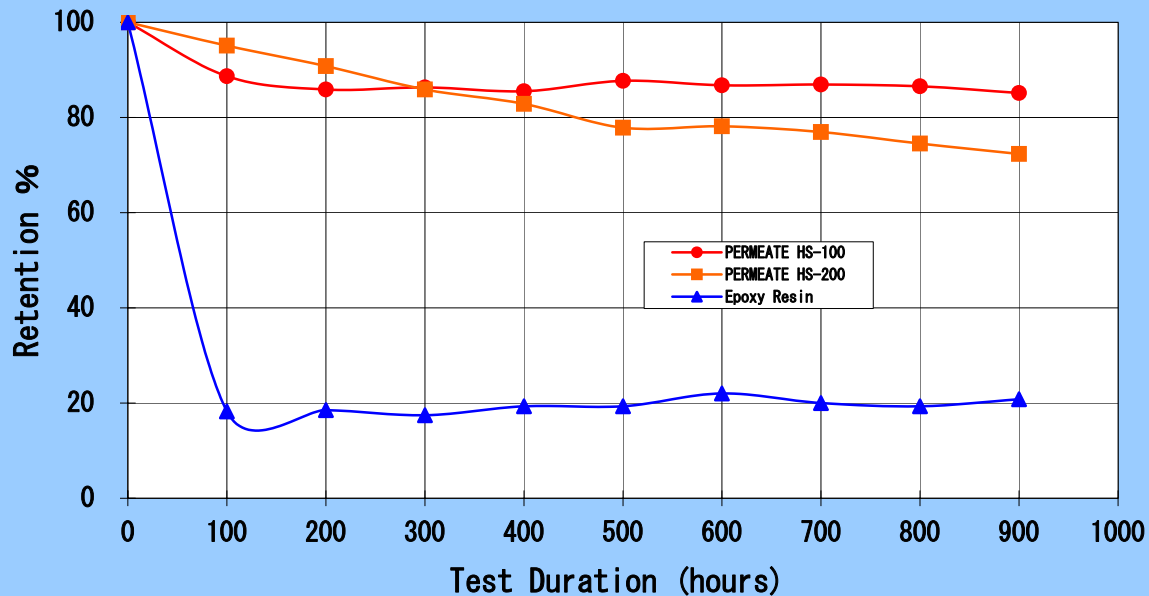
Color Difference: Used Konica-Minolta CR-300 Chroma Meter  
Average of 5 points (L\*,a\*,b\* measured→ΔE calculated)  
If ΔE<2, color difference is not visible to eyes

Test Duration (hours)	Epoxy Resin					
	Glossiness Value (60 deg)	Gloss Retention (%)	Color-Difference			
			L*	a*	b*	ΔE
0	7.4	100.0	75.04	-0.37	0.01	0
100	1.35	18.2	78.85	-0.92	1.51	4.13
200	1.37	18.5	79.77	-0.85	1.37	4.94
300	1.29	17.4	80.27	-0.85	1.52	5.46
400	1.43	19.3	79.87	-0.89	1.56	5.10
500	1.43	19.3	80.12	-0.89	1.50	5.32
600	1.63	22.0	80.05	-0.92	1.73	5.33
700	1.48	20.0	80.32	-0.88	1.50	5.51
800	1.43	19.3	80.29	-0.87	1.37	5.45
900	1.54	20.8	80.3	-0.81	1.28	5.43

Test Duration (hours)	PERMEATE HS-100					
	Glossiness Value (60 deg)	Gloss Retention (%)	Color-Difference			
			L*	a*	b*	ΔE
0	21.20	100.0	72.73	-0.87	-0.23	0
100	18.80	88.7	72.97	-0.87	-0.38	0.28
200	18.21	85.9	73.02	-0.89	-0.39	0.33
300	18.30	86.3	72.97	-0.89	-0.32	0.26
400	18.13	85.5	73.10	-0.82	-0.38	0.40
500	18.59	87.7	73.03	-0.90	-0.35	0.32
600	18.39	86.7	73.03	-0.90	-0.3	0.31
700	18.43	86.9	73.02	-0.88	-0.33	0.31
800	18.35	86.6	73.05	-0.89	-0.33	0.34
900	18.05	85.1	73.00	-0.88	-0.26	0.27

Test Duration (hours)	PERMEATE HS-200					
	Glossiness Value (60 deg)	Gloss Retention (%)	Color-Difference			
			L*	a*	b*	ΔE
0	21.20	100.0	72.73	-0.87	-0.23	0
100	18.80	95.1	72.97	-0.87	-0.38	0.34
200	18.21	90.8	73.02	-0.89	-0.39	0.39
300	18.30	85.9	72.97	-0.89	-0.32	0.46
400	18.13	82.9	73.10	-0.82	-0.38	0.54
500	18.59	77.9	73.03	-0.90	-0.35	0.67
600	18.39	78.2	73.03	-0.90	-0.3	0.66
700	18.43	76.9	73.02	-0.88	-0.33	0.95
800	18.35	74.5	73.05	-0.89	-0.33	0.96
900	18.05	72.3	73.00	-0.88	-0.26	0.99

### GLOSS RETENTION



### COLOR DIFFERENCE

