

Acrylate Label Durability

CHARACTERISTIC	TEST CONDITION	EFFECT
Outdoor Weathering		
Xenon Test	2,000 Hours	No changes
Florida Test	15 Month	No changes
Kalahari Test	15 Month	No changes
Arizona Test	15 Month	No changes
Humid Conditions	+50°C/95% rel. humidity-20 days	No changes
Sun Simulation	15 cycles humidity/15 cycles dry (4 weeks)	No changes
Xenon (UV) Test	3,000 hours (equal to 3-4 years outdoor weathering)	No changes
Xenon (UV) Test- Long-Term	10,000 Hours	No changes
Ultraviolet Light and Water (Weatherometer)	720 hours/20 min. UV and 3 min. UV & water	No changes
Heat aging (short term)	90°C circulating air/20 weeks	No changes
Heat aging (short term)	180°C circulating air/19 days	No changes
Heat and Cooling Cycles (long term)	150°C and 40°C (5,000 hours)	No changes
Low temperature	-30°C/7 days	No changes
Corrosion Long-Term Test EK4	18 Weeks	No influence
Galvanostatic Cathodic Polarization of Coated Panels Electrochemical Corrosion Short-Term Test	5 Days	No changes
Shrinkage	240 hours/23°C and 98% rel. humidity	<0.05%
Shrinkage	180°C/7 Days	<0.1%
Shrinkage	270°C/15 min.	<0.2%
Condensation		
Water Climate Testing	20 Weeks/23°C 98% rel. humidity	No changes
Water Climate Testing	20 weeks/45°C 98% rel. humidity	No changes

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9155 Trade Place, San Diego, CA 92126 | ExpressCorp.com

ISO 9001:2008 Certified - ITAR Registered
Member: Automatic Identification Manufacturers Association
Member: AIM UID Supplier Alliance
Member: National Assn. of Graphic Identification Product Manufacturers
Member: Specialty Graphic Imaging Association



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Mechanical		
Crockmeter (dry)	2,000	No changes
Crockmeter (with super petrol)	1,000	No changes
Taber Test (10N/dry)	500 Strokes	No changes
Chemical Resistance		
Water Immersion	48 Hours/70°C	None
Super Petrol	1 Hour/23°C	None
Sulfuric Acid (30%)	1 Hour/23°C	None
Sodium Hydroxide (1%)	1 Hour/23°C	None
Toluol	1 Hour/23°C	None
Motor Oil (SAE 20 S)	1 Hour/23°C	None
Preservative (Wax Henkel)	1 Hour/23°C	None
Washer Detergent	48 Hours/65°C	None
Dishwater Detergent	48 Hours/23°C	None
Detergent for Inside (Sidolin)	1 Hour 23°C	No influence
Lubricating Oil	48 Hours/23°C	No changes
Cooking Oil	48 Hours/23°C	<0.05%
Gasoline Splashing (immersed in gas atmosphere)	1 hour/23°C	<0.1%
High-Pressure Cleaner	50 Bar, 45° Angle to Substrate, 1m distance, 40° temperature for 10 minutes substrate: lacquer panel, polypropylene	<0.2%
Hot Engine Oil	120°C/4 Hours	No changes
Hot Engine Coolant (50:50: ethylglycol & water)	95°C/4 Hours	No changes
Brake Fluid (DOT 3 or DOT4)	23°C/4 Hours	No changes

Technical data is provided for comparison purposes only. This data has been compiled from sources we believe to be accurate but cannot guarantee. Variable combinations of chemicals, temperature, pressures and chemical concentrations may produce varied results. Customer testing is recommended to determine actual suitability in any specific environment.

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