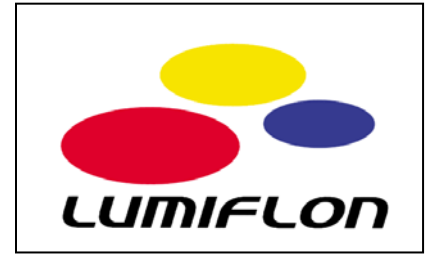


LUMIFLON® LF-710F Resin

Product Data Sheet



Asahi Glass developed LUMIFLON fluoropolymers in 1982. These unique products are the first solvent-soluble fluoropolymers in the world. LUMIFLON polymers are made of alternating fluoroethylene and alkyl vinyl ether segments (FEVE). The fluorinated segments provide outstanding UV stability, weather resistance, and chemical resistance, while the vinyl ether segments provide solvent compatibility and cross-linking sites.

LUMIFLON LF-710F

LF-710F is used in powder coatings. LUMIFLON LF-710F makes a coating that provides outstanding weathering resistance, as well as chemical resistance. LF-710F can be used to make either high or matte finish powder coatings. The resin can be crosslinked with standard aliphatic blocked isocyanates. Potential applications for coatings made with LF-710F include architectural (window frames and construction panels), heavy equipment coatings, and clear coats for automotive and aerospace applications.

Table 1 shows typical physical properties for LUMIFLON LF-710F, while Table 2 shows coating properties. Figure 1 shows QUV-B weathering data for typical fluorourethanes made with LF-710F.

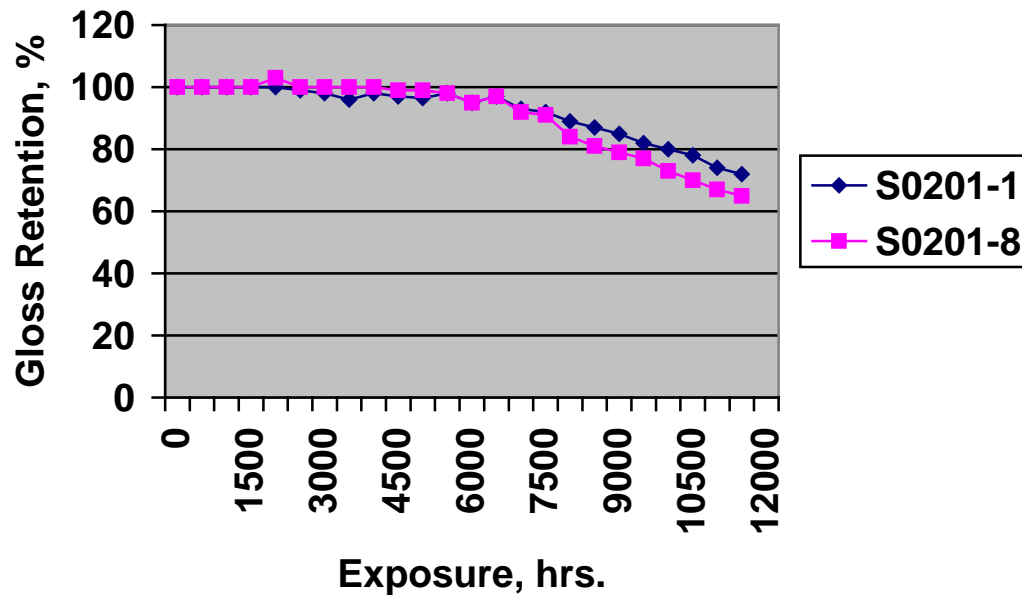
Table 1
LF-710F Specifications and Typical Physical Properties

Property	Typical Value	Specification
Appearance	Pale yellow flakes	Pale yellow flakes
Acid Value	0	0
OH Value (mgKOH/g solid)	46	46±6
% Solids	99.0	98.5 min.
T _g , °C	54.8	51.5 min.
Specific Gravity, g/cc	1.4	-

Table 2
LF-710F Coating Properties

Property	Result
Gloss, 60°	30-80
Cross Hatch Adhesion	100/100
Erichsen Test	7mm
Dupont Impact (1/2 inch ,500g)	50cm
Humidity Resistance	Excellent
Alkaline Resistance (5%NaOH, 500 hrs.)	Excellent
Acid Resistance (5%H ₂ SO ₄ , 500 hrs.)	Excellent
Accelerated Weathering (S.W.M. 5000 hrs.)	Excellent

Figure 1
QUV-B Weathering Test Results for LF-710F Powder Coating



S0201-1: LF-710F/NCO White Enamel, PWC=28%

8020108: LF-710F/NCO Phthalocyanine Blue, PWC=5%

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