

# CCF Decoupler Firm Foam

CCF Decoupler 3F Properties		Test Method	Unit	Value
Physical Property		Test Method	Unit	Value
ASTM D 1056 Designation		–	-	1A0* / 1C0* / 1B0*
Cell Structure		–	-	Semi-closed
Color		–	-	Black
Compression Deflection 25%		ASTM D 1056	psi / kPa	0 – 0.4 / 0 – 2.7
Compression Deflection 25%, after Heat Aging		ASTM D 1056	%	± 20
Density		ASTM D 1056	lb/ft <sup>3</sup> / kg/m <sup>3</sup>	3.5 – 7.0 / 56 – 112
Elongation		ASTM D 412 (Die A)	%	125 min
Flame Resistance		FMVSS 302	Burn Rate	Pass at most thicknesses
Oil Aging at 70 °C (IRM 903) % Volume Change		ASTM D 1056	%	-25 to +10
Service Temperature	Low	ASTM D 1056	°F / °C	-40 / -40
	High Intermittent	-	°F / °C	200 / 93.3
Tensile Strength		ASTM D 412 (Die A)	psi / kPa	25 min / 172 min
Thermal Conductivity		ASTM C 518	BTU-in/hr-ft <sup>2</sup> ·°F / W/mK	0.279 (typ) / 0.040 (typ)

\*Exception to compression set at elevated temperature (70 °C / 158 °F).

UL Listed to UL94 (Flame) HF-1 (UL file# QMFZ2.E55798) at 6.0 mm minimum thickness

UL Listed to UL94 (Flame) V-0 (UL file# QMFZ2.E55798) at 6.0 mm minimum thickness

UL Listed to UL94 (Flame) 5VA (UL file# QMFZ2.E55798) at 6.0 mm minimum thickness

## XX LSE and Low VOC Transfer Tape

A 3-mil quick initial tack, permanent, unsupported acrylic pressure sensitive film. XX has high peel and shear properties and is ideal for nameplates, automotive interior applications, and other demanding applications where a thin unsupported adhesive is preferred.

- Automotive Fogging Test: Passes SAE J1756 @ 100 °C as tested
- Odor: Passes SAE J 1351
- Low VOC as defined by the Japanese Ministry of Health, Labor & Welfare.
- Liner: 74# white poly-coated Kraft

## Primary Use

XX is excellent for bonding to rigid and flexible plastics. Proven performance to a variety of low and high surface energy material including ABS, Powder Coated Paints, TPO, PE, PET and many other low surface energy materials.

## Applications:

- Nameplates
- Automotive interior attachments
- Attaching to powder coated and other LSE finishes
- Cost effective option for many Low Surface Energy materials and applications
- Meets numerous automotive specifications

### Typical Physical Properties<sup>1</sup>

Thickness	3.0 mils (nominal)	5.5 mils (nominal)
Peel Adhesion <sup>2</sup>		
PSTC #101; backed with 1 mil polyester 24 Hour Dwell	NA	58 oz/inch
PSTC #101; backed with 2 mil dead soft aluminum 24 Hour Dwell	NA	160 oz/inch
Shear Adhesion		
PSTC #107; Modified, 1000 gm/sq. in. @ 72 °F	NA	7+ Days no failure
PSTC #107; Modified, 500 gm/sq. in. @ 150 °F	NA	7+ Days no failure

<sup>1</sup> There is no industry wide accepted definition for Low VOC.

<sup>2</sup> Peel tests are performed as per PSTC #101, which states one-minute maximum dwell time. In general, for acrylic adhesives, longer residence time yields much higher peel values.

### Physical Properties And Service<sup>1</sup>

Loop Tack	PSTC #16; 125 oz/in
Service Temperature <sup>2</sup>	-30 °F to 250 °F
Shelf Life	One year from date of shipment when stored under cool, dry conditions.

<sup>1</sup> The use of heat and pressure will help to increase the initial bond of the product to the substrate. Testing is recommended prior to laminating to any material that contains migrating plasticizers.

<sup>2</sup> This information is provided as a means to help characterize the adhesive's temperature resistance. Note that this data is based on limited testing and under no load. The practical service temperature of this or any adhesive system is dependent on many variables including the substrates being bonded, environmental conditions, and the loading and method of application. The purchaser is responsible for determining the suitability of this or any product for their particular purpose and process. The recommended application temperature is 68 °F to 100 °F.

All data and technical information are based on results achieved under typical application conditions. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer.

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