NCFI Polyurethanes
Div. of Barnhardt Manufacturing Co.
PO Box 1528 • Mount Airy, NC 27030
800-346-8229 www.NCFI.com

Technical Data Sheet

NCFI LOW DENSITY POUR SYSTEM 21-060

DESCRIPTION:

NCFI 21-060 is a two component, HFC-245fa blown, all PMDI based, nominal 1.75 pcf density, pour-in-place urethane foam system. It is designed for void filling applications which require a high degree of flow in thick cross-sectional panels. NCFI 21-060 component viscosities make the system suitable for either mechanical mix machines or impingement high pressure (over 600 psi) mixing machines. NCFI 21-060 meets the requirements of Mil Spec MIL-PRF-26514G.

DISTINGUISHING CHARACTERISTICS:

- Slow Reactivity
- Excellent Flow
- Low Component Viscosity
- Wide Processing Parameter Window
- Meets MIL-PRF-26514G

TYPICAL RESIN PROPERTIES:

	21-060 R	21-060 A
Viscosity @ 72°F	520 cps	200 cps
Lbs./Gallon	9.6 lbs.	10.2 lbs.
Appearance	transparent, amber liquid	transparent, brown liquid
Shelf Life	6 months	6 months

MIX RATIO:

	21-060 R	21-060 A
By Weight	100 parts	103 parts
By Volume	100 parts	96 parts

TYPICAL REACTION PROPERTIES:

Hand Mix 203 grams @ 72°F, 1500 rpms

Cream Time	22 seconds
Gel Time	110 seconds
Tack Free Time	190 seconds
Rise Time	225 seconds
Density (FRC)	1.75 pcf

TYPICAL PHYSICAL PROPERTIES:

Molded Density, ASTM D 1622		2.5 pcf
Free-rise Density,	1.75 pcf	
Compressive Strength, ASTM D 1621		34 psi
Parallel-to-rise	23 psi	
After hydrolytic stability test	21 psi	
Perpendicular-to-rise	14 psi	
After hydrolytic stability test	12 psi	
k - factor, initial, ASTM C 518		0.15
Moisture Vapor Transmission, ASTM E 96		2-4 perm in.
Closed Cell Content		>94%
Dimensional Stability, ASTM D 2126		
200°F 28 days		+1.9%
158°F, 100% R.H. 28 days		- 1.4%
-20°F 28 days		- 0.2%
Relative Combustibility, MIL-PRF-26514G		pass
Water Absorption, ASTM D 2842		≤0.06 lbs/sq ft
Resistance to Mold and Mildew		Excellent
Maximum Service Temperature		200°F

*The above values are average values obtained from laboratory experiments and should serve only as guide lines.