



Dalton, GA Mount Airy, NC Houston, TX

23-026 Low Density Rigid Pour System

Technical Data Sheet

NCFI 23-026 is a two-component, HFO-blown, all PMDI based, low density pour-in-place rigid polyurethane foam system designed for discontinuous panel fill or other void filling applications. The relatively low viscosities of the two components make this product adaptable to most all polyurethane dispensing equipment.

UL Classification: NCFI 23-026 is UL Classified for Flame Spread and Smoke Developed with a Class 1 rating at a 6 inch thickness and nominal density of 2.65 pcf. On www.ul.com, search for file R7374, select BRYX and look for 23-026.



Building Codes: NCFI 23-026 meets ASTM E-84 Flame Spread \leq 25 and Smoke Developed < 450.

Typical Properties of Components

Component	B-23-026	A2-000
Appearance	Transparent brown liquid	Transparent brown liquid
Brookfield Viscosity @ 30 rpm	565 cps at 72°F	200 cps at 72°F
Specific Gravity	1.26	1.24
Storage Temperature	40°F – 85°F	40°F – 90°F

Mix Ratio, 111 Index

Typical Properties of Mixed System at 72°F

Cream Time	28 seconds	
Gel Time	102 seconds	
Tack Free Time	125 seconds	
Rise Time	162 seconds	
Free Rise Core Density	1.61 pcf	

Process Parameters

Iso Temperature	75°F to 85°F
Poly Temperature	70°F to 95°F
Mold Temperature	95°F to 125°F

^{*}Demold time is dependent on shot size, and material and mold temperatures. NCFI recommends using a high-quality, properly applied wax or silicone release agent to prevent cured material from sticking to mold surfaces.

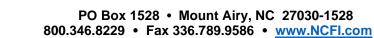
Typical Foam Physical Properties

Test Method	Results			
	Maximum service temperature: 180°F			
ASTM D1622	Core Density: 2.26 pcf			
ASTM E84	Flammability (UL 723 at 6"): Flame Spread = 20; Smoke Developed = 200			
ASTM D1621	Compressive Strength: Parallel: 32 psi Parallel Modulus: 751 psi			
ASTM D1621	Compressive Strength: Perpendicular: 30 psi	Perpendicular Modulus: 655 psi		
ASTM C203	Flexural Strength: 39 psi	Flexural Modulus: 898 psi		
ASTM C273	Shear Strength: 37 psi	Shear Modulus: 342 psi		
ASTM D1623	Tensile Strength: 31 psi	Tensile Modulus: 811 psi		
ASTM D1623	Substrate Adhesion: OSB failed at 48.5 psi			
66 66	Substrate Adhesion: Aluminum sheet at 41.7 psi			
ASTM E96	Water Vapor Permeance: 0.688 gr/ft²/hr/inHg			
ASTM C272	Water Absorption by immersion: 1.1% by volume			
ASTM C518	Initial K-Factor @ 75F mean: 0.144 Btu•in/(hr•ft²•°F)			
66 66	Initial K-Factor @ 55F mean: 0.139 Btu•in/(hr•ft²•°F)			
	Initial K-Factor @ 20F mean: 0.125 Btu•in/(hr•ft²•°F)			
NCFI TM-300	Closed cell content: > 90%			
ASTM D2126	Dimensional stability, % volume change: 200°F	-20°F 100%RH & 158°F		
"	7 day aging: -0.98%	0.18% -0.37%		
ASTM D2126	30 day aging : -1.34%	0.12% 1.83%		
CDPH 01350 V1.2	VOC Test: Private Office	PASS		
66 66 66	School Classroom			
" "	Single Family Residence	PASS		

All testing performed on a molded panel.

Storage and Handling

Store the poly from 65°F to 85°F. Avoid moisture contamination during storage, handling, and processing. For both components, pad containers and day tanks with either nitrogen or dry air (desiccant cartridge or air dryer @ -40°F dew point). For optimum shelf life, the recommended storage temperature for iso is 64°F to 86°F. **Do not expose iso to lower temperatures – freezing may occur.** Shelf life is 6 months for factory sealed containers for the B-Side and 24 months for the A-Side.



Page 3 of 3



Original: 012720 Modified: 022520 Modified: 042120