



NCFI Polyurethanes

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21-070 Rigid Pour Foam System

Technical Data Sheet

NCFI 21-070 is a two component, HFO blown, low GWP, all PMDI based, pour-in-place urethane rigid foam system. It is designed for void filling applications which require a high degree of flow.

Typical Properties of Components

Component	B-21-070	A2-000
Appearance	Brown liquid	Brown liquid
Brookfield Viscosity @ 20 rpm	450 cps at 72°F	200 cps at 72°F
Specific Gravity	1.13	1.24
Storage Temperature	40°F - 90°F	40°F- 90°F

Mix Ratio

By weight..... 100 parts poly : 112 parts iso
 By volume..... 100 parts poly : 100 parts iso

Typical Properties of Mixed System at 72°F

	Regular	Fast
Cream Time	45 seconds	18 seconds
Gel Time	230 seconds	120 seconds
Tack Free Time	360 seconds	180 seconds
Rise Time	400 seconds	220 seconds
Free Rise Core Density	2.2 pcf	

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Typical Physical Properties

Overall Molded Density	3.2 pcf
Compressive Strength	30.1 psi
Initial k-factor	0.167
Moisture Vapor Transmission	2-3 perm inch
Closed Cell Content	90%
Water Absorption	0.044 lb/ft ²
Flammability	
UL-94 HBF	Pass
FMVSS-302	Pass
FAR 25.853a(ii)	Pass
Resistance to Solvents	Excellent
Resistance to Mold & Mildew	Excellent
Maximum Service Temperature	200°F

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

Other Properties

- Meets Title 46 CFR 179.240 for flotation foam
- Meets USCG Title 33, Chapter 1, Part 183

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.

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