



**Product Description**

PCF 229-N-2.5 polyurethane, fire retarded, rigid foam systems are designed to meet a variety of requirements without sacrificing product quality. The PCF 229 systems can be formulated in a wide range of densities from 1.8-6.0 pounds per cubic foot. The unique handling characteristics of the PCF 229 series system provide ease of mixing by hand or machine and produce a uniform product with excellent cell structure. This product does not contain any HFC or CFC blowing agents.

**Applications**

The PCF 229 series systems have been formulated for use in the manufacturing of void filling applications, flotation and applications requiring fire retardant properties.

*PCF 229 is Coast Guard Approved for Marine Applications such as lifeboats, rescue boats, life floats and buoyant apparatus. This product meets MIL-P-21929C in accordance with 46 CFR 160.035-3(u)(7) and FR meets MIL-F-83671 ¶ 3.13 .*

**Typical Properties Side-A (ISO)**

Viscosity @ 77°F (25°C)	150-250 MPa
Specific Gravity @ 77°F (25°C)	1.24
Appearance @ 77°F (25°C)	liquid

**Typical Properties Side-B (polyol blend)**

Viscosity @ 77°F (25°C)	400-700 MPa
Specific Gravity @ 77°F (25°C)	1.18
Appearance @ 77°F (25°C)	viscous liquid

**Typical Physical Properties @ 74°F (23°C)**

Cream Time	35-45 seconds
Rise Time	250-300 seconds
Demold Time	5-20 minutes
Density, ASTM D1622	2.5 pcf
Flash Point, ASTM 3278-89	>200°F (93°C)
Compressive Strength, Parallel ASTM D1621	43 psi
Compressive Strength, Perpendicular ASTM D1621	30 psi
Shear Strength	40 psi
Dimensional Stability, Volume Change D2126, 158°F/ 100% RH in 28 Days	-1.0 %
Dimensional Stability, Volume Change D2126, 200°F in 28 days	-1.0 %
Dimensional Stability, Volume Change D2126, -20°F in 28 Days	-0.5 %
Closed Cell Content, ASTM D6226	>94%
Water Absorption by Volume ASTM D-2842	0.49%
K-Factor Initial, ASTM C518 btu in./hr ft <sup>2</sup> F°	0.165
UL® 94 Flame Class QAI Test Report No TJ5347	HF0

**Processing Characteristics**

Mix Ratio, By Volume A/B	50/50
<b>HIGH PRESSURE MACHINE</b>	
A Temperature	70° F (21° C)
B Temperature	70° F (21° C)
Hose Temperature	70° F (21° C)
<b>LOW PRESSURE MACHINE</b>	
A Temperature	90° F (32° C)
B Temperature	90° F (32° C)
Hose Temperature	90° F (32° C)



## Storage and Handling

Containers for both A and B components should be kept tightly closed to prevent moisture contamination. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Side-B may be stored at ambient temperatures. Storage for Side-A should be maintained between 77°F (25°C) and 95°F (35°C). An additional note of caution is that exposure to temperatures over 200°F (102°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other heat sources that may cause excessive local heating.

## Health and Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact your Polycoat Products representative.

**Limited Warranty:** Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

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