

Glenair *BlueJacket*
U.S. Navy Qualified Jacketing Material
Material Specification



MIL-PRF
24758A

A

Glenair has developed and qualified a new formula jacketing material, which we are calling “*BlueJacket*” in honor of the men and women of the U.S. Navy who work with these products in arduous conditions on a daily basis. The material is low smoke, halogen free, high UV tolerant, and meets both U.S. Navy and aerospace fluid requirements. The color of Mil-PRF-24758A “*BlueJacket*” conduit is standard US Navy haze gray in accordance with Fed Std 595B #26270. If other colors are desired, contact the factory at (818) 247-6000. The material has the following performance characteristics:

GLENAIR “BLUEJACKET” TESTING

Temperature rating: -40°C to +260°C (with excursions to 290°C) Per MIL-PRF-24758A.

Halogen free per IEC 60614-1. Less than 5mg of HCL per 1 gm of product tested.

Accelerated Weathering (Solar) per IEC 60068-2-5; 56 days exposure (Equivalent to 50 years in the sun).

Flame Resistant per IEC 60614-1; Material does not sustain combustion when the source of flame is removed.

Low Smoke Index per NES 711 (11.75); Minimum standard is 25. The Glenair tested level is 11.75. This makes the material acceptable for interior applications as well as topside use.

Smoke Density Class F1 Per NF F 16-101 IAW DIN EN 60695-2-11:2001

Toxicity Index per NES 713 (1.9); Minimum standard is 5. The Glenair tested level is 1.9. This makes the material acceptable for interior applications as well as topside use.

Colorable to Fed Std 595B

Markable IAW MIL-PRF-24758A

Oxygen Limiting Index = 45.1 Per EN ISO 4589-2:1999; Minimum is 28.

12 Sec Vertical Burn: (Pass) Per 14CFR Part 25.853(a) AMDT 25-116 App F Part 1 (a)(1)(ii)

Fluids Per MIL STD 810F, Method 504

Fuel (MIL-T-83133): JPG

Hydraulic Fluid (MIL H 5606): ROYCO 756

Lube Oil (MIL-L-23699): ROYCO-500

Cleaner (MIL-C-85570): CALLA-855

Solvent (Isopropyl Alcohol): TT-I-735

De Icer (AMS-1432): E36 Runway Deicer

Coolant (MIL-C-87252): Coolanol 25R

Fire Extinguishant Foam: AMEREX AFFF

ASTM E 595 Vacuum Outgassing: Post Bake results; TML.06%, CVCM .006%, WVR .02%.

NAWC Lakehurst Amphib VLA flexible conduit JSF high temperature tests (600 deg F).

Fungus Resistance testing (Rating of 0) per MIL:-SRD-810F, Method 508.5.

ASTM D624 Die B tear test: 150kN/m.

Cold Bend -65°C, IAW TP 972-7103TP-1 No crazing or cracks.