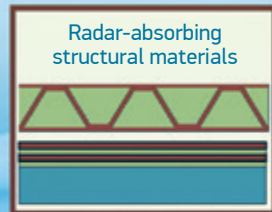
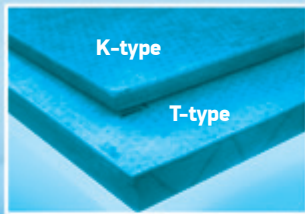


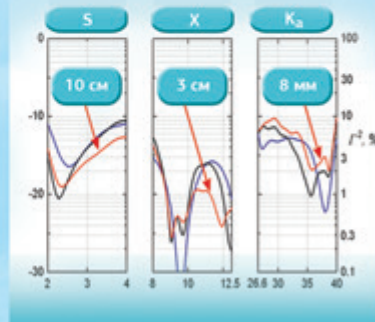
RADAR-ABSORBING STRUCTURAL MATERIALS

Reducing radar signatures of ships



Electromagnetic emission frequency bands with reflection factor $R < -10$ dB:

K_a : 26.6–40 GHz (wavelength 8 mm)
X: 8–12.5 (3 cm)
S: 2–4 (10 cm)



The materials are made of carbon-glass-reinforced plastic as structures of two types: plane-layered (K-type) and geometrically non-uniform (T-type).

Designed for manufacturing radar-absorbing elements:

- Superstructure walls
- Hull
- Aircraft hangars
- Doors
- Casings of gas exhaustion systems
- Antenna masts
- Towers and railings for weaponry systems

Operational conditions:

- Ambient temperature from -40°C to $+80^{\circ}\text{C}$

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