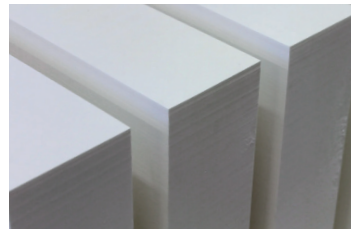


HTG180/35

Pure Syntactic Foam High Temperature grade

High temperature resistance pure epoxy syntactic foam for insulation, recommended depth up to 2 000m with temperature up to 110°C (used with composite layer)

Composition: Epoxy matrix and glass microspheres.



BENEFITS

- High glass temperature (Tg 110°C to 140°C) for structural integrity under heat
- Excellent thermal stability under high hydrostatic pressure
- High compressive strength
- Superior hot-wet resistance, preventing water ingress and thermal degradation
- Optimized for use with composite layers

TECHNICAL DATA

Average density on a 1m ³ batch	561 kg/m ³ (± 40)	35 lb/ft ³ (± 1.25)
Maximum Depth rating (at 2°C)	2 000 msw	
Hydrostatic crush pressure (Instantaneous, 2°C) (typical)	700 bars	
Standard Block dimensions (L [±5] x W [±2] x H [±1])	850 x 400 x 110 mm	
Uniaxial Compressive strength (Standard: NF EN ISO 844 - NF 56-101)	55.8 MPa	
Uniaxial Compressive modulus (Standard: NF EN ISO 844- NF 56-101)	2.1 GPa	
Flexural strength (Standard: NF EN ISO 178)	28.5 MPa	
Flexural modulus (Standard: NF EN ISO 178)	1.77 GPa	
Tensile strength (Standard : NF EN ISO 1926)	18.4 MPa	
Tensile modulus (Standard : NF EN ISO 1926)	2.2 Gpa	
Glass transition (DSC) (Tg standard: NF EN ISO 11 357)	175 - 185°C	

Typical mechanical properties done at 20°C. This document is presented in good faith, corresponding to average results and is not to be considered as specification. Depths shown are only for guidance. Every subsea application is unique, with different size, shape, operating conditions and demands. Calculations and material selection should be performed on individual conditions



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