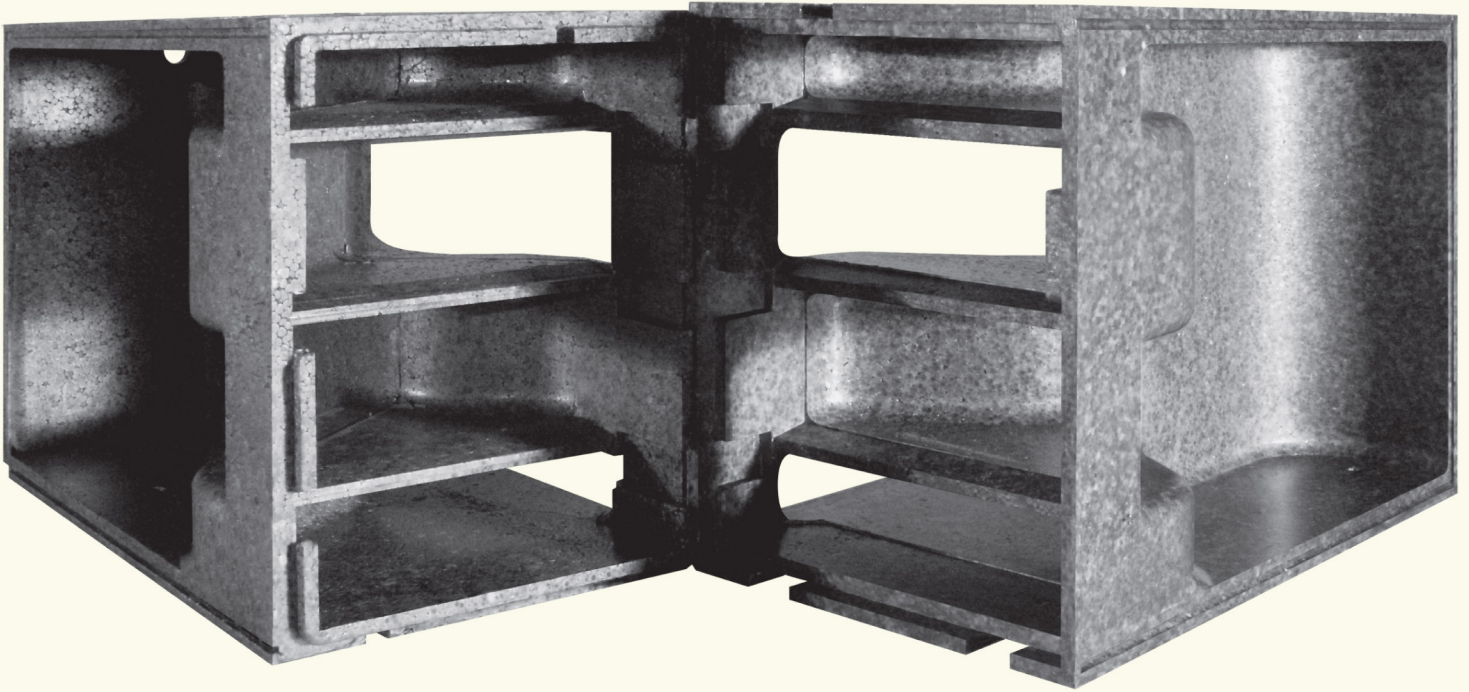


HIGH TEMPERATURE FOAMS FOR DESIGN



- *New thin wall molded foam materials offer the designer excellent strength-to-weight ratios.*
- *No draft conditions and molded undercuts are possible with Tempo's self contained mold design.*
- *Applied as expandable foam the HT-EPS finds application in specialty floats, steam sterilisable trays, insulation and lightweight supports.*
- *HT resin is unaffected by alkali solutions and is resistant to mineral acidic acids and their water solutions and diesel.*
- *HT resin burn rate will satisfy the standards set forth in MVSS 302.*

TEMPO

PRECISION MOLDED FOAM

www.temp-foam.com

General description

EPS/PPO granulate which can be moulded into high toughness and/or high temperature foam. The material is available with and without flame retardant. The compressive strength of the material is appr. 15% higher than normal EPS at comparable densities, which makes the material very suitable for impact-absorbing applications.

PHYSICAL PROPERTIES	TEST METHOD	UNITS	SPECIFICATION				
Compressive strength	EN1605 (10%)	kPa	40 kg/m ³ , 250 kPa 60 kg/m ³ , 500 kPa 80 kg/m ³ , 850 kPa				
Thermal properties	ISO 2796-1980		Short term resistance*	Long term resistance	Flame retardant	Thermal Insulation mW/Mk*	Type
			110°C	105°C	no	33	EPS- HT600R
			100°C	95°C	no	33	EPS- HT400R
			90°C	85°C	yes	35	EPS -HT200F
			* at 30 kg/m ³				
The temperature resistance is depending on load and duration and has to be tested in practice for the specific application * short term = 1 hour exposure without significant deformation (< 1%)							
Fire properties	ECE R44 FMVSS302 UL 94		HT200F				
			Test norm	Density range		Result	
			ECE R44 and FMVSS 302	25-60kg/m ³		0 mm/min	
			UL94 (ASTM 4986-03)	25-60 kg/m ³		HF1	

Remarks:

HT 200F series is halogen free and contains no SVHC's.

Also available is HT800 foam, with short term resistance of 120°C and and long term resistances of 115°C.

The temperature resistance can only be achieved only if the pentane is removed by an extended oven treatment of at least 72 hours at 70°C.

