

Polyisocyanurate Foam (PIR)



ShreeFoam PIR CFC and HCFC free rigid insulation foam products having operating temperature range from -200°C to +150°C. **ShreeFoam PIR** foams are available in slab, pipe section and a choice of profiles & blocks. These are prefabricated using CNC machines from Free rise buns made in discontinuous process. These foams are special purpose high strength insulating material adequate for low temperature installations as in LNG/LPG Pipelines & Equipments.

Features

- Durable
- Pre-Fabricated and ready to use
- Fire retardant
- Available in Butt & Shiplap Joints
- Sawing and Shaping not required at site
- Available in various density and dimensions as per customer requirement
- Excellent Thermal conductivity

Properties

Property	Criteria	Standard
TEST RESULTS CONFIRMS ASTM C 591		
Density	Min 40 kg/m ³	ASTM D1622
Closed Cell Content	Min 95%	ASTM D6226
Water Vapour Transmission	Max 0.8 g/h-m ²	ASTM E96
Dimensional stability	Max 4% (70 + 2°C), 97 + 3 % RH	ASTM D 2126
	Max 1% (-40 + 3°C), ambient RH	
	Max 2% (100 + 2°C), ambient RH	
Flame Spread Index	25 max	ASTM E84
Coefficient if the Thermal Expansion and contraction	50-100x10 ⁻⁶ mm/°C	ASTM D696
Compressive strength at 10% deformation	Min 240 kPa	ASTM D1621
Tensile Strength	Min 265 kPa	ASTM D1623
Leachable chloride content	<60 ppm	ASTM C871
Thermal Conductivity @ different mean temperatures		
At -120°C	Max 0.019 w/m.k	ASTM C177
At -80°C	Max 0.025 w/m.k	
At -20°C	Max 0.26 w/m.k	
At +10°C	Max 0.025 w/m.k	
Cryogenic Thermal Stress Ratio (CTSR)	>1.5	