POLYNEX™ GPS FLUTE FILL

High Performance Graphite Insulation

Poly Molding's POLYNEX™ GPS Flute Fill is a void fill material meant to be laid over pre-existing metal roofs to provide a homogeneous and level foundation for the new roof system. POLYNEX™ GPS Flute Fill is a premium, rigid, graphite polystyrene (GPS) insulation with closed cells modified in several densities to provide a range of compressive strengths. Poly Molding's POLYNEX™ GPS Flute Fill is manufactured to meet or exceed ASTM C578, Standard Specification for rigid, cellular Polystyrene Thermal Insulation.

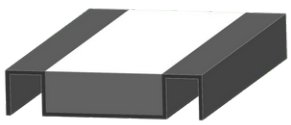
Advantages

- **Superior Compressive Strength**
- **Stable Long Term R-Value:** PolyNex™ boasts an impressive R-5 insulation value at 1-1/16"
- **Energy Effective:** Graphite reflects radiant heat and increases the resistance to heat flow
- **Cost Effective**
- **Water Resistant**: Closed cell foam will not readily absorb moisture
- **Mold, Mildew, and Insect Resistant:** An inert EPA approved insect repelling additive can be added during the manufacturing process to deter termites; GPS Insulation does not support mold or mildew growth
- **Code Approvals:** GPS insulation is recognized by the International Code Council Evaluation Service (ICC-ES) and is manufactured from UL and FM approved raw materials
- **Environmentally Friendly:** Contains no CFC, HCFC, HFC or Formaldehyde and is 100% recyclable

Sizes

- Poly Molding Flute Fill can be precisely cut to match the contour of your building's metal flutes
- Flute Fill is offered in square or tapered edges in lengths of 4 and 8 feet
- Please contact our offices at info@polymoldingllc.com for more information

Profiles



Standard Flute Fill Cut

Tapered Cut

Application

Poly Molding POLYNEX™ GPS Flute Fill is custom cut with a square or tapered edge to fit any metal deck or steel roof design. To ensure a uniform and flat substrate, the product is either loosely placed or mechanically fastened on top of metal or steel roof.

PRODUCT		PolyNex ™ 10	PolyNex ™ 13	PolyNex ™ 15	PolyNex ™ 25	PolyNex ™ 40	PolyNex ™ 60	
ASTM C578 Classification		**TYPE I**	**TYPE VIII**	**TYPE II**	**TYPE IX**	**TYPE XIV**	**TYPE XV**	
Compressive Strength @ 10% Deformation, min	psi	10.0	13.0	15.0	25.0	40.0	60.0	ASTM D1621
R-value (Achieved at 1-1/16")	@75° F	5.0	5.0	5.0	5.0	5.0	5.0	ASTM C518
Density, Nominal	lb./ft³	1.0	1.25	1.50	2.0	2.5	3.0	ASTM 303
Flexural Strength, min.	psi	25.0	30.0	35.0	50.0	60.0	75.0	ASTM 203
Water Vapor Permeance of 1.0 in. thickness, max, perm		5.0	3.5	3.5	2.5	2.5	2.5	ASTM E96
Water Absorption Volume %		4.0	3.0	3.0	2.0	2.0	2.0	ASTM C272
Flame Spread		<25	<25	<25	<25	<25	<25	ASTM E84
Smoke Developed		<450	<450	<450	<450	<450	<450	ASTM E84

**R-Value of 4.7 is achieved at 1"*

POLYMOLDING
"The Future of Expanded Polystyrene"

www.polymoldingllc.com
(877) 537-7199

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