



PolyNex™ ROOFING PANELS

High Performance Graphite Insulation

Insulation is an important part of a building's envelope. PolyNex™ Roofing Panels provide unrivaled quality, with a consistent long-term R-value that will endure the lifespan of your roof construction. PolyNex™ GPS Roofing Panels have R-values of 4.7 per inch (R-5 for 1-1/16") and are made to order to fit your flat or tapered roofing applications. Our Tapered Insulation 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

- Flat PolyNex™ Roofing Panels are available in 4'x4' and 4'x8' standard sizes with thicknesses from 1/8" to 36", but are also readily available in custom lengths and widths
- Tapered PolyNex™ Roofing Panels are available in standard 4'x4' and are pre-cut to have a slope of 1/8", 1/4" and 1/2" per foot, as required
- Custom sizes and thicknesses are available upon request
- Please contact our offices at info@polymoldingcorp.com for more information

Application

Poly Molding's PolyNex™ GPS Roofing Panels are made to order for your flat or tapered roofing applications. PolyNex™ GPS Roofing Panels Roofing Insulation meets or exceeds ASTM C578 criteria, making it an HFC free, recyclable rigid insulation. PolyNex™ Roofing Panels are well-suited for a variety of single-ply roof systems, including EPDM, TPO, and PVC, and assembly types, including ballasted, mechanically fastened, and fully adhered.

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"