PRODUCT DATA SHEET

DuPont™ Styrofoam™ Plazamate™ XR

HYDROTECH
A SIKA COMPANY

GENERAL DESCRIPTION

Styrofoam brand insulation is a closed cell, rigid plastic, extruded polystyrene foam insulation. Styrofoam™ Brand Plazamate™ XR resists compressive creep and fatigue, delivering long-term compressive strength and high R-values ranging from 6.7 per inch to 7.7 per inch.

BASIC USE

Styrofoam brand insulation is designed for use in roof, wall, and foundation insulation applications in new or retrofit commercial structures. Styrofoam™ Plazamate™ XR is intended for use on top of roofing/waterproofing membranes in ballasted IRMA/PMR (Inverted Roof Membrane Assembly/Protected Membrane Roof) applications. Styrofoam™ Plazamate™ XR boards are intended for use when applications require optimizing roof thickness, reducing expensive commercial roof building alterations required for meeting the latest building and energy codes, and assists in reducing overall project costs.

SIZES

Styrofoam™ Plazamate™ XR is available in panels 24 or 48 inches wide X 96 inches long in thicknesses of 2.3 inches to 3.0 inches depending on the product type.

TECHNICAL DATA

PROPERTY	TEST METHOD	PLAZAMATE XR/HI60
THERMAL RESISTANCE[1] Aged R-value/inch @75°F (24°C) mean. temp., $ft^2*hr*°F/Btu$	ASTM C518	6.7
Aged R-value/inch @40°F (4°C) mean. temp., $ft^2*hr*°F/Btu$	ASTM C518	7.4
Aged R-value/inch @25°F (-4°C) mean. temp., $ft^2*hr*°F/Btu$	ASTM C518	7.7
COMPREHENSIVE STENGTH[2] psi, (kPa), min.	ASTM D1621	60 (413)
FLEXURAL STRENGTH psi, (kPa), min.	ASTM C203	75 (517)
WATER ABSORPTION % by volume, max.	ASTM C272	0.01
WATER VAPOR PERMEANCE[3] perm, $(ng/(Pa*s*m^2))$	ASTM E96	0.02
DIMENTIONAL STABILITY % linear change, max.	ASTM D2126	0.09
LINEAR COEFFICIENT OF THERMAL EXPANSION in./in.*°F, (mm/mm*°C)	ASTM D696	3.5×10^{-5}
TYPE	ASTM C578	VII
MAXIMUM USE TEMPERATURE °F, (°C)	--	165 (74)

LEED® INFORMATION

	Credit 4	Credit 5
Recycled Content (% by weight)	20 (pi)	
Manufacture Location	Contact Hydrotech for project specific information	
Extraction/Harvesting Location	Contact Hydrotech for project specific information	
VOC Content (g/L)		0

1. Values are consistent with the criteria of ASTM C578. R means resistance to heat flow. The higher the R-value, the greater the insulatin power.
2. Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first. Since Styrofoam™ Brand Extruded Polystyrene Foam Insulation is a visco-elastic material, adequate design safety factors should be used to prevent long-term creep and fatigue deformation. For static loads, 3:1 is suggested. For dynamic loads, 5:1 is suggested.
3. Based on 1" thickness.
4. These numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions.

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