



Density 4.0 pcf (64.1 kg/m³)
Maximum Loading 5.0 psi (34.5 kPa)
Color Black



ETHAFOAM™
packaging products

ETHAFOAM™ SYNERGY™ RCA P4 Polyethylene Foam

ETHAFOAM™ SYNERGY™ RCA P4 polyethylene foam is a strong, resilient, closed-cell foam with a density of 4.0 pcf (64.1 kg/m³). It is specially formulated for automotive returnable dunnage requiring Class A surface protection. Recyclable ETHAFOAM SYNERGY RCA P4 utilizes an ultra-fine-cell formulation for applications that demand good aesthetics. It is ideally suited in packaging applications for loadings up to 5.0 psi (34.5 kPa).

ETHAFOAM SYNERGY RCA P4 has outstanding dimensional stability and recovery characteristics that provide optimal cushioning protection against repeated impacts. It is ideal for cushion packaging and material handling applications in the automotive returnable dunnage, computer and medical device industries. In addition to reducing shock and vibration damage, ETHAFOAM SYNERGY RCA P4 will not mar Class A surfaces. To achieve optimum performance, Dow recommends that qualified packaging engineers design the total packaging solution.

Size Available in Black (Planks):
2" x 24" x 108"

Product Features

ETHAFOAM™ SYNERGY™ RCA P4 polyethylene foam is a durable, lightweight, flexible, solid extruded product. As the properties listed on the reverse suggest, ETHAFOAM SYNERGY RCA P4 offers excellent strength, resistance to creep under load, vibration and shock absorbency, and water resistance characteristics.

ETHAFOAM SYNERGY RCA P4 is produced with Dow's patented *RapidRelease* manufacturing process. *RapidRelease* technology delivers a higher quality product with improved dimensional stability and safety. This process technology incorporates a patented CFC- and HCFC-free blowing agent system and an accelerated curing system that reduces residual blowing agents in ETHAFOAM products to trace amounts.

ETHAFOAM SYNERGY RCA P4 meets the requirements of the U.S. Clean Air Act Amendments. It is easily fabricated, impervious to most chemicals, non-abrasive and performs consistently over a wide range of temperatures.

ETHAFOAM SYNERGY RCA P4 is also reusable and completely recyclable because it is made of non-crosslinked polyethylene.

Flammability

ETHAFOAM™ SYNERGY™ RCA P4 has successfully passed FMVSS 302 flammability testing, conducted according to the U.S. Code of Federal Regulations, CFR 49.

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Product Information

Physical Properties of ETHAFOAM™ SYNERGY™ RCA P4 Polyethylene Foam			
Physical Properties ¹	Test Method	Direction	Value
Density	ASTM D3575, Suffix W, Method B; ISO 845		pcf (kg/m ³) 4.0 (64.1)
Cell Size	ASTM D3576	Average	mm 0.30
Compression Set	ASTM D3575, Suffix B, (50% compr.)	Vertical	< 10%
Compressive Creep (1000 hrs @ 73°F [23°C])	ASTM D3575, Suffix BB	Vertical	< 10% @ 5.0 psi (34.5 kPa)
Compressive Deflection @ 10% @ 25% @ 50%	ASTM D3575, Suffix D	Average	psi (kPa) 18 (124) 21 (145) 32 (221)
Thermal Stability	ASTM D3575, Suffix S; ISO 2796		< 1.0%
Thermal Conductivity @ 75°F (24°C)	ASTM D3575, Suffix V; EN 28301; ISO 2581	Vertical	BTU•in/hr•ft ² •°F (W/m ² •K) 0.32 (0.046)
Water Absorption	ASTM D3575, Suffix L		lb/ft ² (kg/m ²) 0.2 (1.0)
Buoyancy	ASTM D3575, Suffix AA		pcf (kg/m ³) 56 (897)
Tensile Strength @ peak	ASTM D3575, Suffix T; ISO 1798	Average	psi (kPa) 40 (276)
Tensile Elongation	ASTM D3575, Suffix T; ISO 1798	Average	30%
Tear Strength	ASTM D3575, Suffix G	Average	lb/in (N/mm) 12.5 (2.2)

¹The data presented for this product are for unfabricated ETHAFOAM polyethylene foam products. While values shown are typical of the product, they should not be construed as specification limits.

For information on products, design assistance and testing services available from Dow, contact us at: 1-866-PKG-FOAMS (754-3626) or www.ethafoam.com

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WARNING: ETHAFOAM polyethylene foam products are combustible and may constitute a fire hazard if improperly used or installed. During transportation, storage, installation and use, these products should not be exposed to open flame or other ignition sources.

ETHAFOAM PACKAGING PRODUCTS
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