

NG POLYETHYLENE

Durable and versatile 10 x 10 Woven HDPE scrim

NG polyethylene is a lightweight, corrosion-resistant air distribution system designed to deliver uniform, low-velocity air in large open spaces. Its washable, non-metallic construction makes it ideal for industrial, agricultural, and food environments where durability, hygiene, and easy installation are critical, while providing energy-efficient and quiet airflow.

AVAILABLE COLORS



WHITE 91.2



BLACK 91.1



BLUE 92.2



DARK GREEN 90.1



GRAY 92.1



NATURAL 16.0

- ✓ Cal. Fire Marshall, NFPA-701
- ✓ CPAI-84, ASTM E84 Class 1
- ✓ Flame Retardant Coating

ADC

Air Distribution Concepts USA

CUSTOM FABRIC AIR DIFFUSERS



LIGHTWEIGHT & EASY INSTALLATION

- NG polyethylene ducting is extremely lightweight compared to metal ductwork.



CORROSION RESISTANT

- Polyethylene does not corrode, rust, or degrade in humid or wash-down environments. This makes NG polyethylene duct ideal for: Food processing, Dairies, Warehouses, Agricultural and industrial spaces



WASHABLE & HYGIENIC

- Fully washable; resistant to mold and microbial growth, easy to clean and maintain.



ENERGY-EFFICIENT AIR DISTRIBUTION

- The system delivers air through engineered perforations designed to: Reduce stratification, Improve mixing and comfort, Minimize over-ventilation



LONG SERVICE LIFE & DURABILITY

- Resists dents, deformation, and cracking. Holds up well in industrial environments. Maintains performance over time. This lowers long-term replacement and maintenance costs.

MATERIAL DATASHEET

PROPERTY	UNIT	POLYETHYLENE
Construction - Woven HDPE scrim 10X10	—	10X10
Weight	oz/yd ²	6.7 oz (%) -/+10 - ASTM D-1910
Thickness	Mil	12 (%) -/+10 - ASTM D 1777:2019Mod
Tensile strength Warp/Weft lbs	—	206.4 / 171.8 (ASTM D 5034:2021, Grab)
Tear Strength Warp/Weft lbs	—	52.9 / 58.2 (ASTM D 2261:2013, Tongue)
Coating - LDPE, Each Side	Mils	2.5 (%) -/+10 - FR Additive
FR Additive	—	Yes
Melting point	°F	257
Spontaneous ignition Temperature	°F	340
Water absorption (in standard climate)	%	≤ 0.01%
Electrostatic resistance - Static dissipative	Ohm/square (Q/D)	~10 ¹⁵ to 10 ¹⁷
Electrostatic resistance - Conductive	Ohm-cm (Q-cm)	~10 ¹⁶ to 10 ¹⁷
Operating Temperature max/min	°F	+176 / -40

PROPERTY	WHITE	BLACK	NATURAL	BLUE	GRAY	DARK GREEN
Material	Polyethylene					
Construction - Woven HDPE scrim	10X10	10X10	12X12	12X12	12X12	10X8
Weight oz/yd ²	6.7 oz	6.7 oz	6.1 oz	6.1 oz	6.1 oz	6.0 oz
Thickness Mil	12	12	14	14	14	12
Tensile strength Warp/Weft lbs	206.4 / 171.8	206.4 / 171.8	170 / 195	170 / 195	170 / 195	220 / 175
Tear Strength Warp/Weft lbs	52.9 / 58.2	52.9 / 58.2	50 / 55	50 / 55	50 / 55	65 / 65
Coating - LDPE, Each Side (Mils)	2.5	2.5	2.25	2.25	2.25	1.75
Shrinkage in wash	~0 - 1%	~0 - 1%	~0 - 1%	~0 - 1%	~0 - 1%	~0 - 1%

PROPERTY	POLYETHYLENE
Resistance to aging	Good
Resistance to vibrations, motion	Excellent
Resistance to solvents	Good
Resistance to acids	Good
Resistance to bases	Medium
Resistance to oxidants, light, etc.	Excellent



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