

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.

FSC 1212 5.3 UV Clear



- FR Rating - Class 1 (ASTM E84)
- Cal. Fire Marshall, NFPA-701
- CPAI-84, ASTM E84 Class 1
- ULMeets NFPA 90A/90B
- CAN/UL S-109



- **Lightweight & Easy Installation**
NG polyethylene ducting is extremely lightweight compared to metal ductwork.
- **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

Material	Polyethylene		
Construction	HPDE 1000 Denier (%) -/+10 - 12x12 Counts per inch in warp and fill		
Weight	oz/yd ²	5.3 oz	(%) -/+10 ASTM D-1910
Thickness	mil	10	(%) -/+10
Tensile Strength	Warp/Weft lb/in	195 / 188	ASTM D-751, Grab
Tear Strength	Warp/Weft lb _f	42 / 42	ASTM D-751, Tongue
Bursting Strength		373 P.S.I. (ASTM D-751, Mullen)	
Coating		1.70 Mils Each Side	(%) -/+10
Moisture Vapor Trans	%	0.02 perms (ASTM E96)	
Fire Resistance		Flame retardant	Class 1 (ASTM E84)
***Melting Point	°F	248	
***Spontaneous Ignition Temperature	°F	660	
***Water absorption (in standard climate)	%	0.0 (Non-Hygroscopic)	
***Electrostatic resistance	Ohm	Surface resistance: ~10 ⁶ -10 ⁹ Ω (dissipative)	
***Operating temperature max./min.	°F	+248 / -40	
***Resistance to aging		Excellent	
***Resistance to vibration, motion		Excellent	
***Resistance to solvents		Excellent	
***Resistance to acids		Good	
***Resistance to bases		Medium	
***Resistance to oxidants, light, etc.		Good	

CUSTOM FABRIC AIR DIFFUSERS

