Product Specification VF190+ Anti-Fouling Film Fill



Product Description

VF190+ is a vertical channel film fill with very low fouling potential and excellent thermal performance designed for installation in heavy industrial counterflow cooling towers. The fill packs are constructed from individual sheets of UV protected PVC formulated for cooling tower applications and in compliance with CTI-136. The fill packs will operate satisfactorily in continuous operating temperatures of 140°F or less.

The surface of the fill has an engineered microstructure to improve heat transfer. The individual sheets are strategically bonded together at "DEDICATED JOINTS" with a male/female connection and a destructive connection. The final assembly results in a staggered pattern of flutes to form a structurally sound honeycomb pattern.

This fill is suitable for applications where TSS levels are 100 ppm or less (500 ppm if bacterial activity is low), make-up is from uncontaminated sources, water treatment includes good to fair biological & scale control, there are minimal airborne contaminants and oils or greases in the system are limited to 5 ppm.



CES VF190+

Applicable Commercial Standards			
Property	Test Method	Typical Values	
Specific Gravity	ASTM-D792	1.41 ± 0.04	
Tensile Strength (psi)	ASTM-D638	5500 min	
Tensile Modulus (psi)	ASTM-D638	3.5 x 10⁵ min	
Flexural Strength (psi)	ASTM-D790	10,000 min	
Flexural Modulus	ASTM-D790	3.5 x 10⁵ min	
Heat Distortion Temperature (°F)	ASTM-D648	162 min	
Flammability 1	UL94 Vertical	94V-0	
	Burning		
Flammability 2	UL94 Horizontal	94H-B	
·	Burning		
Flame Spread	ASTM-E84	25 or less	
ASTM methods shown above are based on the Annual Book 1000 and have been modified to suit practical			

ASTM methods shown above are based on the Annual Book 1999 and have been modified to suit practical conditions.

For dimensions and/or physical properties different from those listed above or special requirements including weatherability, flammability, etc., contact CES for agreement on the specifications.

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Product Dimensions		
Description	Units	Value
Flute Height	Inches	0.75
Flute Width	Inches	2.00
Flute Corrugation Angle	Degrees	0.0
Surface Area	SF/CF	45
Contact Points /SF	#/CF	450
Module Depth	Inches	23.6
Module Width	Inches	12.0/24.0
Max Module Length	Inches	120.0
Sheet Thickness Before Forming	Mils	14.0/19.0
Sheet Thickness After Forming	Mils	10.0/15.0

Custom module sizes and sheet thickness can be tailored to customer specification. Contact CE Shepherd Co for details.

