Product Specification CES Surface Media (190/310)



CES Surface Media is constructed from PVC sheets designed for biological water treatment in municipal and industrial waste water treatment applications. The media is designed for expansive surface area coupled with increased numbers of mixing points to greatly enhance performance and efficiency. The modules are available in 3 configurations of different flute sizes for a wide range of applications.

The PVC sheets comprising the Surface Media modules are thermoformed into rigid structures that are self extinguishing, UV protected and impervious to rot, fungi, bacteria and chemical compounds typically found in wastewater streams.



CES Surface Media

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	94H-B
	Horizontal	
	Burning	
Flame Spread	ASTM-E84	25 or less
ASTM methods shown above are based on the	Annual Book 1999 and h	ave been modified to suit practical
conditions.		
For dimensions and/or physical properties diffe	erent from those listed at	pove or special requirements

Statements and methods presented are based upon the best available information and practices known to CES. Because conditions of use may vary and are beyond our control, CES makes no warranty, expressed or implied, concerning the use of products. The user should undertake sufficient tests to determine the suitability for any intended use of the material. CES assumes no responsibilities for the use of information presented herein and hereby disclaims all liability in regard to such use. No statements are intended or should be construed as a recommendation to infringe any patent.

Nominal Product Dimensions

Description	Units	Value (190/310)	
Flute Height	Inches	.75/1.20	
Flute Width	Inches	1.7/3.0	
Flute Corrugation Angle	Degrees	30/30	
Surface Area	FT ² /FT ³	48/31	
Module Depth	Inches	12,24/12, 24	
Module Width	Inches	12/12	
Module Length (max)	Inches	144/144	
Mixing Points	Each	720/180	
Void Ratio	Percent	95/95	
Sheet Thickness – Before Forming	Mils	14.0/19.0	
Sheet Thickness – After Forming	Mils	10.0/15.0	
Custom module sizes and thickness can be tailored to customer specification.			
Contact CE Shepherd Co for details.			

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