

# Technical Data Sheet

## GEHR PVC Type II®



### I. Physical Properties

	Test method	Unit	Value
1. Specific gravity	ASTM D792	g/cm <sup>3</sup>	1.37
2.a Water Absorption (saturation)	ASTM D570	%	0.5
2.b Humidity Absorption (saturation)			0.2
3.a Maximum permissible service temp.	UL 746B	°F	140
3.b Lower permissible service temp.			-40

### II. Mechanical Properties

1. Tensile strength at yield	ASTM D638	psi	6,700
2. Tensile Modulus			440,000
3. Elongation at yield		%	-
4. Tensile strength at break		psi	-
5. Elongation at break	ASTM D256	%	-
6. Impact strength		ft-lb/in	-
7. Notch impact strength		ft-lb/in	18
8. Ball indentation / Rockwell hardness	ASTM D785	R-Scale	111
9. Shore-D	ASTM D2240	-	80
10. Flexural strength	ASTM D790	psi	10,900
11. Flexural Modulus			429,000

### III. Thermal Properties

1. Vicat-softening point	VST/B/50 VST/A/50	ASTM D1525	°F	-
				-
2. Heat deflection temperature	HDT/B (66 psi) HDT/A (264 psi)	ASTM D648	°F	-
				160
3. Coefficient of linear thermal expansion		ASTM D696	in/in/°F *10 <sup>-5</sup>	3.7
4. Thermal conductivity at 73 °F		ASTM C177	BTU/hr-ft*°F	-
5. Glass transition temperature		ASTM D3418	°F	385
6. Melting temperature				385

### IV. Electrical Properties

1. Volume resistivity	ASTM D257	Ω*cm	-
2. Surface resistivity		Ω	-
3. Dielectric constant at 1MHz	ASTM D150	-	-
4. Dielectric loss factor at 1 MHz		-	-
5. Dielectric strength	ASTM D149	V/mil	690
6. Tracking resistance	IEC 60112	Grade	-

### V. Additional Data

1. Bondability	-	-	yes
2. Compliances	FDA	-	no
	NSF	-	51 + 61
3. Flammability	UL 94	-	V-0
4. Limiting Oxygen Index (LOI)	ASTM D2863	%	47
5. UV stabilization	-	-	no

[More info about PVC](#)

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All values are attributes of the used raw materials.

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