

Technical Data Sheet

GEHR PP-H[®]



I. Physical Properties

	Test method	Unit	Value
1. Specific gravity	ASTM D792	g/cm ³	0.9
2.a Water Absorption (saturation)	ASTM D570	%	0.2
2.b Humidity Absorption (saturation)			0.02
3.a Maximum permissible service temp.	UL 746B	°F	212
3.b Lower permissible service temp.			41

II. Mechanical Properties

1. Tensile strength at yield	ASTM D638	psi	4,900
2. Tensile Modulus			
3. Elongation at yield		%	13.5
4. Tensile strength at break		psi	-
5. Elongation at break		%	70
6. Impact strength	ASTM D256	ft-lb/in	n.b.
7. Notch impact strength		ft-lb/in	1.3
8. Ball indentation / Rockwell hardness	ASTM D785	R-Scale	-
9. Shore-D	ASTM D2240	-	76
10. Flexural strength	ASTM D790	psi	-
11. Modulus of elasticity			190,000

III. Thermal Properties

1. Vicat-softening point	VST/B/50	ASTM D1525	°F	194
	VST/A/50			302
2. Heat deflection temperature	HDT/B (66 psi)	ASTM D648	°F	205
	HDT/A (264 psi)			130
3. Coefficient of linear thermal expansion		ASTM D696	in/in/°F *10 ⁻⁵	8.3
4. Thermal conductivity at 73 °F		ASTM C177	BTU/hr-ft*°F	-
5. Glass transition temperature		ASTM D3418	°F	50
6. Melting temperature				322

IV. Electrical Properties

1. Volume resistivity	ASTM D257	Ω*cm	≥10 ¹³
2. Surface resistivity		Ω	≥10 ¹³
3. Dielectric constant at 1MHz	ASTM D150	-	-
4. Dielectric loss factor at 1 MHz		-	-
5. Dielectric strength	ASTM D149	V/mil	1,015
6. Tracking resistance	IEC 60112	Grade	-

V. Additional Data

1. Bondability	-	-	limited
2. Compliances ⁸⁾	FDA	-	yes
	NSF	-	no
3. Flammability ⁸⁾	UL 94	-	HB
4. Limited Oxygen Index (LOI)	ASTM D2863	%	18
5. UV stabilization	-	-	limited

⁸⁾ tested only for natural colored material

All values are attributes of the used raw materials.

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