

Technical Data Sheet

GEHR PP-30GF[®]



I. Physical Properties

	Test method	Unit	Value
1. Specific gravity	ASTM D792	g/cm ³	1.14
2.a Water Absorption (saturation)	ASTM D570	%	0.2
2.b Humidity Absorption (saturation)			0.01
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	-
2. Tensile Modulus		-	
3. Elongation at yield		%	-
4. Tensile strength at break		psi	12,300
5. Elongation at break		%	3
6. Impact strength	ASTM D256	ft-lb/in	6.5
7. Notch impact strength		ft-lb/in	1.8
8. Ball indentation / Rockwell hardness	ASTM D785	R-Scale	160
9. Shore-D	ASTM D2240	-	85
10. Flexural strength	ASTM D790	psi	17,400
11. Flexural Modulus			943,000

III. Thermal Properties

1. Vicat-softening point	VST/B/50	ASTM D1525	°F	320
	VST/A/50			266
2. Heat deflection temperature	HDT/B (66 psi)	ASTM D648	°F	311
	HDT/A (264 psi)			284
3. Coefficient of linear thermal expansion	ASTM D696	in/in/°F *10 ⁻⁵	3.9	
4. Thermal conductivity at 73 °F	ASTM C177	BTU/hr-ft*°F	1.9	
5. Glass transition temperature	ASTM D3418	°F	-	
6. Melting temperature			-	

IV. Electrical Properties

1. Volume resistivity	ASTM D257	Ω*cm	≥10 ¹⁴
2. Surface resistivity		Ω	≥10 ¹³
3. Dielectric constant at 1MHz	ASTM D150	-	2.6
4. Dielectric loss factor at 1 MHz		-	-
5. Dielectric strength	ASTM D149	V/mil	1015
6. Tracking resistance	IEC 60112	Grade	CTI 600

V. Additional Data

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

All values are attributes of the used raw materials.

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