

Technical Data Sheet GEHR PP-30GF®

I. Physical Properties

	Test method	Unit	Value
1. Specific gravity	ISO 1183	g/cm ³	1,14
2. Water absorption	ISO 62	%	-
3. Maximum permissible service temp. (no stronger mechanical stress involved)	-	-	-
Upper temperature limit	-	°C	100
Lower temperature limit	-	°C	5

II. Mechanical Properties

	Test method	Unit	Value
1. Tensile strength at yield	ISO 527	MPa	-
2. Elongation at yield.	ISO 527	%	-
3. Tensile strength at break	ISO 527	MPa	85
4. Elongation at break	ISO 527	%	3
5. Impact strength	ISO 179	kJ/m ²	40
6. Notch impact strength	ISO 179	kJ/m ²	9
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	110
8. Shore-D	DIN 53505	-	-
9. Flexural strength	ISO 178	MPa	120
10. Modulus of elasticity	ISO 527	MPa	6500

III. Thermal Properties

		Test method	Unit	Value
1. Vicat-softening point	VST/B/50	ISO 306	°C	130
	VST/A/50		°C	160
2. Heat deflection temperature	HDT/B	ISO 75	°C	155
	HDT/A		°C	140
3. Coefficient of linear thermal expansion		DIN 53752	K ⁻¹ ·10 ⁻⁴	0,7
4. Thermal conductivity at 20 °C			W/(m·K)	0,27

IV. Electrical Properties

	Test method	Unit	Value
1. Volume resistivity	VDE 0303	Ω·cm	≥ 10 ¹⁴
2. Surface resistivity		Ω	≥ 10 ¹³
3. Dielectric constant at 1MHz		-	2,6
4. Dielectric loss factor at 1 MHz	DIN 53483	-	-
5. Dielectric strength	VDE 0303	kV/mm	40
6. Tracking resistance	IEC 60112	-	KB > 600

V. Additional Data

	Test method	Unit	Value
1. Bond ability		-	+
2. Friction coefficient	DIN 53375	-	-
3. Flammability	UL 94	-	HB
4. UV stabilisation	-	-	Fair

All values are attributes of the used raw materials.

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