

Technical Data Sheet

GEHR PVC-U

I. Physical Properties

	Test method	Unit	Value
1. Specific gravity	ISO 1183	g/cm ³	1,36
2. Water absorption	ISO 62	%	0,2
3. Chemical resistance	-	-	DIN 8061
4. Maximum permissible service temp. (no stronger mechanical stress involved)	-	-	-
Upper temperature limit	-	°C	60
Lower temperature limit	-	°C	-15

II. Mechanical Properties

	Test method	Unit	Value
1. Tensile strength at yield	ISO 527	MPa	55
2. Elongation at yield.	ISO 527	%	3
3. Tensile strength at break	ISO 527	MPa	30
4. Elongation at break	ISO 527	%	> 10
5. Impact strength	ISO 179	kJ/m ²	no break
6. Notch impact strength	ISO 179	kJ/m ²	3
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	120
8. Shore-D	DIN 53505		82
9. Flexural strength	ISO 178	MPa	90
10. Modulus of elasticity	ISO 527	MPa	3000

III. Thermal Properties

	Test method	Unit	Value	
1. Vicat-softening point	VST/B/50	ISO 306	°C	75 ¹⁾
	VST/A/50		°C	-
2. Heat deflection temperature	HDT/B	ISO 75	°C	72 ²⁾
	HDT/A		°C	-
3. Coefficient of linear thermal expansion	DIN 53752	K ⁻¹ *10 ⁻⁴		0,8
4. Thermal conductivity at 20 °C		W/(m*K)		0,14

IV. Electrical Properties

	Test method	Unit	Value
1. Volume resistivity	VDE 0303	Ω*cm	>10 ¹⁵
2. Surface resistivity		Ω	≥10 ¹³
3. Dielectric constant at 1MHz		-	3
4. Dielectric loss factor at 1 MHz	DIN 53483	-	0,01
5. Dielectric strength	VDE 0303	kV/mm	20-40
6. Tracking resistance	IEC 60112	-	KB 600

V. Additional Data

	Test method	Unit	Value
1. Bond ability		-	+
2. Friction coefficient	DIN 53375	-	0,6
3. Flammability	UL 94	-	V-0
4. UV stabilisation	-	-	Fair

¹⁾ 65 (solid rod 160 - 200 mm Ø) 57 (solid rod 220 - 300 mm Ø) ²⁾ 59 (solid rod 160 - 200 mm Ø) 51 (solid rod 220 - 300 mm Ø)
All values are attributes of the used raw materials.

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