

Technical datasheet

PVC-U (Polyvinylchloride unplasticized)

Example of application			
› pipework; pump components; housing body			
Advantages		Disadvantages	
› high hardness and chemical resistance › low water absorption › weldability		› bad anti-friction properties › low continuous service temperature	
Basic information		Specification	
Format		round material: 5 mm up to 400 mm available in 2 m length sheets: 1 mm up to 50 mm available in 2 m x 1 m	
Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.44	g/cm ³	ISO 1183
Moisture ingress	n.sp.	%	DIN EN ISO 62
Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	58	MPa	DIN EN ISO 527
Elongation at break	n.sp.	%	DIN EN ISO 527
E-Module	3.300	MPa	DIN EN ISO 527
Notch toughness	4	kJ/m ²	ISO 179
Rochwellhardness	n.sp.	MPa	DIN EN ISO 2039
Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.159	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	0.8	K ⁻¹ · 10 ⁻⁴	DIN 53752
	1.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	60	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	0	°C	
Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	10 ¹³	Ω	DIN IEC 60093
Puncture resistance	39	kV/mm	DIN EN 60243
Legend			
n.sp. = not specified			

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.

*Higher specification on request.

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