Technical datasheet

PVC-U (polyvinyl chloride unplasticized) impact resistant

Example of application
› container constructions, apparatus engineering, machine covers

Advantage	Disadvantages
› hardness und chemical resistance › low water absorption › weldability › good thermo-forming › high impact resistance	› low anti-friction properties › low continuous service temperature

Basic information	Specification
Format	**roundmaterial:** on request **sheets:** 1 mm up to 30 mm available in 2 m x 1 m 1.5 mm up to 12 mm available in 3 m x 1.5 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.42	g/cm^3	ISO 1183
Moisture ingress	n.sp.	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	55	MPa	DIN EN ISO 527
Elongation at break	n.sp.	%	DIN EN ISO 527
E-module	3.100	MPa	DIN EN ISO 527
Notch toughness	4	kJ/m^2	ISO 179
Rockwellhardness	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	0.8	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	60	°C	
Min. operating temperature, long-term	n.sp.	°C	
Max. operating temperature, long-term	-20	°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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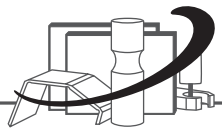

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noltewerk GmbH & Co. KG · Mergenthalerstr. 15 · 48268 Greven · Germany · t +49 (25 71)16-0 · f +49 (25 71)16-402 · info@noltewerk.de · www.noltewerk.de