

TKG® VINYL (PVC)

Density 1,44 g/cm³

Colour Grey / black / red / Ivory

Chemical Designation PVC (Polyvinyl chloride)

PROPERTIES	RESULT	UNIT	PARAMETER	NORM USED
Mechanical properties				
Modulus of elasticity	3000	MPa	In tension	DIN EN ISO 527-2
Modulus of elasticity	-	MPa	In flexure	DIN EN ISO 178
Tensile strength at yield	58	MPa	50 mm/min	DIN EN ISO 527-2
Tensile strength at break	-	MPa	50 mm/min	DIN EN ISO 527-2
Impact strength	No break	Kj/m ²	Max. 7,5j	DIN EN ISO 179-1EU
Ball indentation hardness	82	MPa		ISO 2039-1
Elongation at break	15 min.	%		DIN 527
Coefficient of friction	-	----	Against steel p=0,05 N/mm ²	
Thermal properties				
Crystalline melting point	-	°C		DIN 53765
Service temperature	70-80	°C	Short term	
Service temperature	60	°C	Long term	
Thermal expansion	8	10 ⁻³ K ⁻¹		DIN 53483
Specific heat	1,70 – 2,00	J/(g·K)		ISO 22007-4:2008
Thermal conductivity	0,159	W/(K·m)		ISO 22007-4:2008
Electrical properties				
Surface resistance	-	Ω		DIN IEC 60093
Specific volume resistance	10 ¹³	Ω*cm		DIN IEC 60093
Dielectric strength	39	kV/mm	1 mm.	ASTM 149
Miscellaneous properties				
Resistance to weathering	Resistant in colour			
Flammability (UL94)	B1		According to	DIN IEC 60995-11-10

MAIN CHARACTERISTICS

Very low water absorption
 Easy to weld and bond
 Easy thermoformed
 Tough
 Good electrical insulation
 Great chemical resistance

INDUSTRY APPLICATIONS

Chemical machines and tanks
 Battery separators
 Prototype models
 Tank linings

Notice: The information given was made with our knowledge indicating our product's possible applications. Existing commercial patents must be observed. These values represent averages taken from samples, so we reserve the right of technical alterations. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.traidvillarroya.com. Traidamid, TKG and TVH as well as their logos are registered trademarks of the Traid Villarroja group of companies, in Europe and other countries.