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PVC

PVC is an amorphous thermoplastic for general purposes. It is a rigid, hard material with good electrical properties in the low voltage, low frequency range.

The main characteristics of PVC are:

- Tough
- Very low water absorption
- Good chemical resistance
- Easily thermoformed
- Very good electrical insulation
- Easy to bond
- Easily welded
- Economic

The preferred fields of use for PVC are: mechanical engineering, chemical apparatus, electrical engineering, general engineering, household appliances, advertising and signs, and prototype modeling.

Popular applications for the use of this product are:

- Chemical apparatus
- Plugs
- Tank linings
- Battery separators
- Insulators
- Signs
- Pallets
- Prototype models

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Technical Information

Information to be used as a guide only. It corresponds with our current knowledge and indicates possible applications. We cannot guarentee suitability for a specific application. Unless otherwise stated these values represent averages taken from injection moulded samples.

Properties	Unit	Test Method DIN ASTM	Result
Mechanical	-	-	-
Density	g/cm³	53479	1.43
Tensile strength at yield	MPa	53455	50
Tensile strength at break	MPa	53455	-
Elongation at Break	%	53455	20
Modulus of elasticity in tension	MPa	53457	3000
Modulus of elasticity in flexure	MPa	53457	-
Ball indentation hardness	MPa	53456	130
Impact strength (Charpy)	KJ/m²	53453	-
Creep rupture strength after 1000 hours with static load	MPa	-	-
Time yield limit for 1% elongation after 1000 hours	MPa	-	0.6
Coefficient of friction against hardened and ground steel p+0,05 N/mm2, v=0,6 m/s	-	-	-
Wear conditions as above	µm/km	-	-
Thermal	-	-	-
Crystalline melting point	ºC	53736	-
Glass transition temperature	ºC	53736	70
Heat distortion temperature method A	ºC	ISO 75	-
Heat distortion temperature method B	ºC	ISO 75	-
Max. service temperature short term	ºC	-	-
Max. service temperature long term	ºC	-	60
Coefficient of thermal conductivity	W/(m K)	-	0.153
Specific heat	J/(g K)	-	1.7-2
Coefficient of thermal expansion	10-5/K	-	8
Electrical	-	-	-
Dielectric constant at 10 (5) Hz	-	53483	3**
Dielectric loss factor at 10(5) Hz	-	53483	0.01
Specific Volume Resistance	Ωcm	53482	10 (15)
Surface Resistance	O	53482	10 (13)
Dielectric strength 1mm	kV/mm	53481	-
Tracking resistance	-	53480	-
Miscellaneous	-	-	-
Moisture Absorption: Equilibrium in standard atmosphere (23ºC / 50% relative humidity)	%	53714	-
Water absorption at saturation at 23ºC	%	53495	-
Resistance to hot water, washing soda	-	-	-
Flammability	-	UL 94	Flame retardant
Resistance to weathering	-	-	Blackis resistance

**Electrical values may vary for black