

Datasheet

ENGLISH

Polyvinyl chloride

RS Stock number 680-735



Chemical designation

PVC

Colour

Grey/White/Red/Black

Density

1.44 g/cm³

Fillers

Mechanical properties	parameter	value	unit	norm
Tensile strength at yield		45	MPa	DIN EN ISO 527
Elongation at break		15	%	DIN EN ISO 527
Modulus of elasticity (tensile test)		3000	MPa	DIN EN ISO 527
Notched impact strength (Charpy)		2	kJ/m ²	DIN EN ISO 179
Ball indentation hardness		140	MPa	DIN EN ISO 2039- 1
Thermal properties	parameter	value	unit	norm
Service temperature	short term	70	°C	Average
Service temperature	long term	60	°C	Average
Thermal conductivity		0.20	W/(K*m)	DIN 52612-1
Coefficient of linear thermal		8	10 ⁻⁵ K ⁻¹	DIN 53752
Expansion				
Electrical properties	parameter	value	unit	norm
Surface resistance		10 ¹³	Ω	IEC 60093
Specific volume resistance		10 ¹⁵	Ω*cm	IEC 60093
Dielectric constant		3		IEC 60250
Dielectric strength		39	k∀/mm	IEC 60243-1
Other properties	parameter	value	unit	norm
Flammability		VO	•	UL94

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