



ENGLISH

Datasheet

Polyvinyl chloride

RS Stock number 680-735



Chemical designation

PVC

Colour

Grey/White/Red/Black

Density

1.44 g/cm³

Fillers

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>
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

<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>
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 Expansion		8	10 ⁻⁵ K ⁻¹	DIN 53752

<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>
Surface resistance		10 ¹³	Ω	IEC 60093
Specific volume resistance		10 ¹⁵	Ω*cm	IEC 60093
Dielectric constant		3		IEC 60250
Dielectric strength		39	kV/mm	IEC 60243-1

<i>Other properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>
Flammability		V0		UL94