Polyvinyl chloride (PVC)

Short designation	PVC
Description	Polyvinyl chloride
Mechanical properties	
Test specimen condition	standard
Tensile strength [MPa]	no info
Elastic modulus (tensile) [MPa]	3000
Ball indentation hardness [MPa]	130
Physical properties	
Density [g/cm^3]	1.38
Melting point [°C]	80
Application temperatures	
Max. temp., short-term [°C]	70
Max. temp., continuous [°C]	60
Min. application temp. [°C]	-30
Other properties	
FlammabilityaccordingtoUL94	V-0
Water absorption (normal climate) [%]	0.4
Chemical resistance	
Mineral grease and oils	+
Petrol	+
Weak/strong acids	+/-
Weak/strong alkalis	+/+
Perchloroethylene	+
Trichloroethylene	-
Acetone	-
Alcohols	+

Hydrolysis resistance (hot water)	+
Weather/UV radiation	o
Main uses	Polyvinylchloride(PVC)isanamorphousthermoplastic.Itisoneofthe oldestandmostcommonthermoplastics.PVCisusedtoagreatextentin theconstructionindustryforwindowprofiles,pipesandfloorcoverings.

+ resistant / o conditionally resistant / - not resistant