



STRETCHER STOPPER

Data Table for: Polymers: Commodity Polymers: PVC hard

Mechanical Properties

Quantity	Value	Unit
Young's modulus	2410 - 4140	MPa
Tensile strength	34.5 - 62	MPa
Elongation	2 - 40	%
Compressive strength	55 - 90	MPa
Fatigue	7 - 8	MPa
Impact strength	0.22 - 1	J/cm

Physical Properties

Quantity	Value	Unit
Thermal expansion	50 - 80	e-6/K
Thermal conductivity	0.126 - 0.293	W/m.K
Specific heat	840 - 1170	J/kg.K
Glass temperature	80 - 90	°C
Service temperature	-10 - 70	°C
Density	1350 - 1550	kg/m ³
Resistivity	1e+21 - 5e+23	Ohm.mm ² /m
Breakdown potential	16.7 - 51.2	kV/mm
Dielectric loss factor	0.007 - 0.02	
Friction coefficient	0.45 - 0.55	
Refraction index	1.52 - 1.55	
Shrinkage	0.2 - 2.5	%
Water absorption	0.07 - 0.4	%

Environmental Data

Quantity	Value	Unit
Eco indicator 95	2.95	mPt
EPS	550	mELU
Ex (in) / Ex (out)	2.76510416666667	MJ/MJ
GER	54.94	MJ
Raw materials input	117.919479	kg
Solid	0.010791	kg
Eco indicator 99	0.219	Pt
Environmental remarks	Inputs and outputs associated with the production of 1 kg suspension (general purpose) PVC granulate in Europe averaged over all the polymerisation processes	

Sample: Commodity Polymers