PVC (PolyVinylChloride)

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	62
		psi	9000
Tensile strength -40°C	D638	MPa	~
		psi	~
Elongation at 23°C	D638	%	40
Elongation at break	D638	%	~
Hardness	D785	Shore D	83
		Rockwell R	~
Flexural strength	D790	MPa	107.87
		psi	16000
Deformation under load 140Kgf/cm² at 23°C for 24 hours	D621	%	~
Charpy impact strength at 23°C	D256	J/M	~
		ftlbs/inch	~
Charpy impact strength at -40°C	D256	J/M	~
		ftlbs/inch	~
Modulus of elasticity	D638	MPa	3432
		psi	497815
Compressive strength	D695	MPa	~
		psi	~
Compressive yield strength	D695	MPa	~
		psi	~
Linear thermal expansion coefficient 30-100°C	E831	mm/mm/°C	8×10^{-4}
Melt point	D3418	°C	150
Heat distortion temperature °C	D648	264 psi	76
		66 psi	82
Service temperature (short term)	D570	°C	~
Service temperature (long term)	D570	°C	~
Dielectric strength	D149	Kv/mm	50
Specific gravity	D792	g/cm³	1.6
Water absorption 24 hrs	D570	%	0.04
Water absorption saturation	D570	%	~
Flammability	UL 94	Burn rate	~

1. The test figures stated are typical values and their aim is to assist the specifier in material selection. They are not intended to represent exact specifications.
2. ~denotes no data available at the time of publication. Please contact Devol for further information.
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