



## Devlon A153

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	82.74
		psi	12000
Tensile strength -40°C	D638	MPa	~
		psi	~
Elongation at 23°C	D638	%	10
Elongation at break	D638	%	~
Hardness	D785	Shore D	80/85
		Rockwell R	112/120
Flexural strength	D790	MPa	82.37
		psi	14100
Deformation under load 140Kgf/cm <sup>2</sup> at 23°C for 24 hours	D621	%	1.0/3.0
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	2746
		psi	398252
Compressive strength	D695	MPa	~
		psi	~
Compressive yield strength	D695	MPa	~
		psi	~
Linear thermal expansion coefficient 30-100°C	E831	mm/mm/°C	0.7 x 10 <sup>-4</sup>
Melt point	D3418	°C	260
Heat distortion temperature °C	D648	264 psi	100
		66 psi	190
Service temperature (short term)	D570	°C	170
Service temperature (long term)	D570	°C	100
Dielectric strength	D149	Kv/mm	>12
Specific gravity	D792	g/cm <sup>3</sup>	1.14
Water absorption 24 hrs	D570	%	0.6/1.5
Water absorption saturation	D570	%	~
Flammability	UL 94	Burn rate	Self-extinguishing

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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