



Devlon A153/S

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	81.18/82.74
		psi	11774/12000
Tensile strength -40°C	D638	MPa	109.78
		psi	15925
Elongation at 23°C	D638	%	3.75/10
Elongation at break	D638	%	~
Hardness	D785	Shore D	78/85
		Rockwell R	112/120
Flexural strength	D790	MPa	82.37/125.28
		psi	14100/18170
Deformation under load 140Kgf/cm ² 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	20.3
		ftlbs/inch	4.6
Modulus of elasticity	D638	MPa	2746/4055
		psi	398252/588137
Compressive strength	D695	MPa	139/144.9
		psi	20160/21016
Compressive yield strength	D695	MPa	~
		psi	~
Linear thermal expansion coefficient 30-100°C	E831	mm/mm/°C	0.7/1.42 x 10 ⁻⁴
Melt point	D3418	°C	214/260
Heat distortion temperature °C	D648	264 psi	98/100
		66 psi	190/209
Service temperature (short term)	D570	°C	~
Service temperature (long term)	D570	°C	~
Dielectric strength	D149	Kv/mm	>12/15
Specific gravity	D792	g/cm ³	1.14
Water absorption 24 hrs	D570	%	0.1/1.5
Water absorption saturation	D570	%	4
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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