

DEVLON V-API

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	79.92
		psi	11592
Tensile strength -40°	D638	MPa	109.52
		psi	15885
Elongation at 23°C	D638	%	5.37
Elongation at break	D638	%	-
Hardness	D785	Shore D	82/85
		Rockwell R	112
Flexural Strength	D790	MPa	121.55
		psi	17630
Deformation under load 140Kgf/cm ² at 23°C for 24 hours	D621	%	1.0/2.0
Charpy impact strength at 23°C	D256	J/M	54.8
		ftlbs/inch	12.3
Charpy impact strength at -40°C	D256	J/M	19.8
		ftlbs/inch	4.5
Modulus of elasticity	D638	MPa	4138
		psi	600175
Compressive strength	D695	MPa	140
		psi	20305
Compressive yield strength	D695	MPa	91.2
		psi	13227
Linear thermal expansion coefficient 30- 100°C	E831	mm/mm/°C	1.11x10 ⁻⁴
Melt point	D3418	°C	216
Heat distortion temperature °C	D648	66 psi	209
Service Temperature(short term)	D570	°C	190
Service Temperature(long term)	D570	°C	125
Dielectric strength	D149	Kv/mm	>15
Specific gravity	D792	g/cm ³	1.14
Water Absorption 24 hrs	D570	%	0.105
Water Absorption saturation	D570	%	3
Flammability	UL 94	Burn rate	V2
Thermal conductivity		w/m.K	0.31

1. 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 James Walker Devol for further information.

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