

## DEVLON S GRADE

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	81.18
		psi	11774
Tensile strength -40°	D638	MPa	109.78
		psi	15925
Elongation at 23°C	D638	%	3.75
Elongation at break	D638	%	-
Hardness	D785	Shore D	78/80
		Rockwell R	114
Flexural Strength	D790	MPa	125.28
		psi	18170
Deformation under load 140Kgf/cm <sup>2</sup> at 23°C for 24 hours	D621	%	1.0/2.0
Charpy impact strength at 23°C	D256	J/M	57.5
		ftlbs/inch	12.9
Charpy impact strength at -40°C	D256	J/M	20.32
		ftlbs/inch	4.6
Modulus of elasticity	D638	MPa	4055
		psi	588137
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	1.42x10 <sup>-4</sup>
Melt point	D3418	°C	214
Heat distortion temperature °C	D648	66 psi	209
Service Temperature(short term)	D570	°C	180
Service Temperature(long term)	D570	°C	105
Dielectric strength	D149	Kv/mm	>15
Specific gravity	D792	g/cm <sup>3</sup>	1.14
Water Absorption 24 hrs	D570	%	0.1
Water Absorption saturation	D570	%	3
Flammability	UL 94	Burn rate	V2

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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