



Nylon 66

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	61.78
		psi	8960
Tensile strength -40°C	D638	MPa	~
		psi	~
Elongation at 23°C	D638	%	20
Elongation at break	D638	%	200
Hardness	D785	Shore D	83
		Rockwell R	116
Flexural strength	D790	MPa	89.2
		psi	12943
Deformation under load 140Kgf/cm ² 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	1716
		psi	248908
Compressive strength	D695	MPa	~
		psi	~
Compressive yield strength	D695	MPa	~
		psi	~
Linear thermal expansion coefficient 30-100°C	E831	mm/mm/°C	1 x 10 ⁻⁴
Melt point	D3418	°C	260
Heat distortion temperature °C	D648	264 psi	93
		66 psi	204
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 ³	1.14
Water absorption 24 hrs	D570	%	1.5
Water absorption saturation	D570	%	8
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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