



Typical Properties of

Nylon Type 6/12

Impact Modified Type 6/12 Polyamide

Process: Cast

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.14
Tensile Strength	D638	psi	9,900
Tensile Modulus	D638	psi	400,000
Elongation	D638	%	60
Flexural Strength	D790	psi	16,300
Flexural Modulus	D790	psi	350,000
Compressive Strength	D695	psi	12,500
Compressive Modulus	D695	psi	N / A
Hardness, Rockwell	D785	--	R113
Hardness Durometer	--	--	D76
Izod Impact (notched)	D256	ft. lb of notch	1.83
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.35
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	5.5×10^{-5}
Continuous Use Temperature	--	°F	220
Heat Deflection Temperature	D648	°F	200
Glass Transition Temperature	D3418	°F	145
Melting Point	D3418	°F	420
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	N / A
Dielectric Strength	D149	Volts/mil	500
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{15}$
Flammability	UL94	--	V-2
Water Absorption, 24 hrs.	D570	% by weight	0.3
Water Absorption, Saturation	D570	% by weight	2
Limiting PV (4:1 Safety Factor)	--	--	N / A
K-Factor	--	--	N / A
FDA Compliance	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.