RONCELLI PLASTICS
FAST | CLEAN | PRECISE

Typical Properties of

Nylon HS (Nylatron® MC 901)

Heat Stabilized Polyamide

Process: Cast

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.15
Tensile Strength	D638	psi	12,000
Tensile Modulus	D638	psi	400,000
Elongation	D638	%	20
Flexural Strength	D790	psi	16,000
Flexural Modulus	D790	psi	500,000
Compressive Strength	D695	psi	15,000
Compressive Modulus	D695	psi	400,000
Hardness, Rockwell	D785	--	M85 (R115)
Hardness Durometer	--	--	D85
Izod Impact (notched)	D256	ft. lb of notch	0.4
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.2
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	5.0×10^{-5}
Continuous Use Temperature	--	°F	260
Heat Deflection Temperature	D648	°F	200
Glass Transition Temperature	D3418	°F	145
Melting Point	D3418	°F	420
Thermal Conductivity	E1530-11	BTU in/hr ft² °F	1.7
Dielectric Strength	D149	Volts/mil	500
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{13}$
Flammability	UL94	--	HB
Water Absorption, 24 hrs.	D570	% by weight	0.6
Water Absorption, Saturation	D570	% by weight	7
Limiting PV (4:1 Safety Factor)	--	--	3,000
K-Factor	--	--	72
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.