



PLASTONICS, INC.

Powder Coating Specialists Since 1959

TECHNICAL DATA SHEET #100 SERIES NYLON

Plastonics #100 Series Nylon 11 is applied by the Fluid Bed dip process. This thermoplastic material produces a hard, smooth glossy surface with excellent wear, abrasion and impact resistant finish. It has good electrical and corrosion properties, as well as outstanding low coefficients of friction. Service temperature in air is up to 180F or 280F under oil or in inert atmospheres.

This Nylon is designed to produce a film thickness of .007" to .015". Higher film thickness is possible if required.

CHARACTERISTICS:

PROPERTIES	TEST METHODS	VALUE
Color		As Required
Abrasion (Taber Abrader) (CS-17 / 1000 / 1000)	ASTM D-1044	10 to 18 mg. wt. loss
Hardness (Shore D)	ASTM D-2240	70 to 80
Impact (Direct)	ASTM D-2794	160 in.lbs
Elongation	ASTM D-638	15%
Dielectric Strength	ASTM D-149	>700 volts/mil
Salt Spray	ASTM B-117	1000 + Hrs
Tensile Strength	ASTM D-638	6000 psi
Water Absorption 77 F – 1 Week	ASTM D-570	0.55%
212 F – 2 Hours		2.6%

Chemical Resistance: Most strong alkalis, commercial solvents, detergents, oils, greases and gasoline.

* Test values above should be used as a guide only. All tests were performed on cleaned and primed, zinc phosphate treated CRS panels.

Typical Applications: Automotive truck spline shafts, clips and wear surfaces, office and institutional furniture, industrial pipe and fittings, food processing and handling equipment as well as marine hardware and shopping carts.



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