



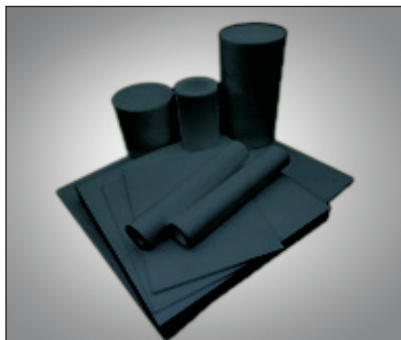
# HINDUSTAN NYLONS

PTFE: Tough Polymer For Tough Environment

## TECHNICAL DATA SHEET

Grade No. HN-CA-35-F

33% Carbon+ 3% Graphite Filled PTFE



Products : Moulded Rods, Moulded Bushes, Moulded Sheets, Skived Sheets & Machined Components

STANDARD :- ASTM-D-4745, Type I, Grade 9, Class A

Sr. No.	Parameter	Standard	Value
1	Colour	Visual	Jet Black
2	Density	ASTM-D-792	2~2.1 gm/cc
3	Tensile Strength	ASTM-D-638	100~150 Kg/cm <sup>2</sup>
4	Elongation	ASTM-D-638	75~125 %
5a	Compressive Strength at 1% Deformation	ASTM-D-695	55~65 Kg/cm <sup>2</sup>
5b	Compressive Strength at 10% Deformation	ASTM-D-695	180~200 Kg/cm <sup>2</sup>
6	Coefficient of Friction	-	-
A	Static	ASTM-D-1894	0.065
B	Dynamic		0.055
7	Hardness	ASTM-D-2240	62~68 Shore D
8	Service Temperature	ASTM-D-648	- 200 ~ + 260°C
9	Water Absorption	ASTM-D-570	< 0.01%
10.1	Dielectric Strength	ASTM-D-194	Conductive
10.2	Surface Resistivity	ASTM-D-257	10 <sup>6</sup> - 10 <sup>8</sup> Ohm-cm
11	Service Conditions (Properties)	<ul style="list-style-type: none"> <li>• High compressive strength</li> <li>• Improved wear resistance under load &amp; permanent deformation</li> <li>• Better thermal / electrical conductivity</li> </ul>	
12	Applications	Piston Rings of Air Compressor	