

# HINDUSTAN NYLONS

## FLUOROCARBONS DIVISION

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Ref. No. :

Date :

### TECHNICAL DATA SHEET

GRADE CODE: HN-CA-35-F

**Product:- 33% Carbon + 3% Graphite Filled PTFE Polytetrafluoroethylene**

**Type:- NFF – PREMIUM – COMPMOLDING – MECHANICAL**

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 %
5.a	Compressive Strength at 1% Deformation	ASTM-D-695	55~65 Kg/cm <sup>2</sup>
5.b	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	260 °C
9	Water Absorption	ASTM-D-570	0 %
10	Dielectric Strength	ASTM-D-194	2~3 Kv/mm
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	