



info@hdslippers.it  
www.hdslippers.com

HD Slippers Srl  
via Artigiano 10  
I-40037 Sasso Marconi

DATA SHEET 032 REV.01

Edited by S.Roveri 13-12-2005

### NEUFLON-032

This note describes a PTFE compound with low static and dynamic friction coefficient, withstanding to wear an extrusion. Main applications are seals and guiding elements for hydraulics and pneumatics.

| CHARACTERISTICS   | NORM      | UNIT  | VALUE         |
|---|-----------|---|---------------|
| Color   |           |   | black         |
| Density   | D795-50   | g/cm <sup>3</sup>                             | 2.09 +/- 0.05 |
| Hardness  | D2240-74  | Sh.D  | 62 +/- 3      |
| Water adsorption  | D570-59T  | %   | <0.01         |
| Working temperature   |           |   | -200 +260     |
| Heat distortion point<br>at 1.81 N/mm <sup>2</sup><br>at 0.45 N/mm <sup>2</sup> | D648      | °C  |               |
| Coeff.of linear expansion   | D696-70   | °C <sup>-1</sup> .10 <sup>-6</sup>            | 85            |
| Heath transfer coefficient  | D177      | W.m <sup>-1</sup> .°C <sup>-1</sup>           | 0.44          |
| Specific heath  |           | Cal.°C <sup>-1</sup> .g <sup>-1</sup>         | 0.23          |
| Tensile strength (break)  | D638-52T  | N/mm <sup>2</sup>                             | 15            |
| Elongation at break   | D638-52T  | %   | >150          |
| Tensile modulus   | D638-52T  | N/mm <sup>2</sup>                             |               |
| Compressive strength at 1% deformation  | D695-54   | N/mm <sup>2</sup>                             | 9             |
| Compressive modulus   | D695-54   | N/mm <sup>2</sup>                             | 1000          |
| Flexural strength   | D790-59T  | N/mm <sup>2</sup>                             |               |
| Flexural modulus  | D790-59T  | N/mm <sup>2</sup>                             | 1190          |
| Bearing strain<br>15N.mm <sup>-2</sup> 24h<br>15N.mm <sup>-2</sup> 100h         | ASTM-D621 | %   |               |
| Izod impact strength<br>with notch 23°C<br>with notch -40°C                     | D256-56   | J.m <sup>-1</sup>                             | 120           |
| Abrasion test   | D1044     | Kg.10 <sup>-6</sup>                           |               |
| Wear coefficiente   |           | 10 <sup>-8</sup> .cm <sup>3</sup> .min/h.Kg.m | 14            |
| Friction Coefficient  |           |   | 0.15          |
| Volume resistivity  | D257-57T  | ohm.cm  |               |
| Dielectric constant   | D150-54T  |   |               |
| Dissipating factor  | D150-54T  | 10 <sup>-4</sup> .tg delta                    |               |
| Flammability  | D635-68   |   | non burning   |
| Resistance to:  |           |   |               |
| polar solvents  |           |   | excellent     |
| non polar solvents  |           |   | excellent     |
| diluted acids   |           |   | excellent     |
| concentrated acids  |           |   | excellent     |
| diluted alkali  |           |   | excellent     |
| concentrated alkali   |           |   | excellent     |
| fungus  |           |   | excellent     |
| nuclear radiations  |           | M Rad   | 0.015         |

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*The data and information contained in this note, while being the result of many years of experience, are only indicative. HD Slippers Srl will not be responsible neither for the impact of use of such data, nor for any conflict with existing patents.*

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