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Certified: ISO 9001: 2008

# PROTECT N Series MIL-PRF-131K TYPE I CLASS I Data Sheet

**Barrier Material: Watervaporproof, Greaseproof, Flexible, Heat-Sealable,  
Structure description: Nylon/PE/Foil/PE**

## PHYSICAL PROPERTIES

| PROPERTY                     | TYPICAL VALUES      | UNITS                                 | TEST METHOD  |
|------------------------------|---------------------|---------------------------------------|--------------|
| Caliper                      | 4.15                | mil                                   | ASTM D2103   |
| Yield                        | 6,150               | in <sup>2</sup> /lb                   | Calculated   |
| Puncture Resistance          | 17-20               | lbs                                   | MIL STD 3010 |
| Tensile Strength             | 4,600               | lbs/in                                | ASTM D882    |
| Breaking Strength            | 75 (MD)<br>70 (TD)  | lbs (Grab Mthd)                       | MIL STD 3010 |
| COF (sealant to sealant)     | < 0.1-0.3           | Kinetic                               | ASTM D1894   |
| OTR                          | <0.0001             | cc/100 in <sup>2</sup> /day<br>24 hrs | ASTM D3985   |
| WVTR                         | <0.0001             | g/100in <sup>2</sup> /day<br>24 hrs   | ASTM F1249   |
| Seal Strength                | 15-20               | lbs/in                                | ASTM F88     |
| Suggested Sealing Conditions | 375 °F, 40psi, 1sec |                                       |              |

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*Disclaimer:*

*The data presented refers to typical values only and should serve only as a guide and does not encompass normal variability, or constitute any warranty. We urge purchasers to conduct tests for suitability in their specific end use.*