



## Material Data Sheet

# PLMFLON-1

### General Information

PLMFLON-1 is a virgin tetrafluoroethylene (PTFE) thermoplastic material that can be used for retaining rings, V-rings, O-rings, rotary seals, and gaskets. PLMFLON-1 has excellent chemical resistance and can only be attacked by molten alkali metals and high-temperature fluorine. When using PTFE as a seal, it is important to note that it will exhibit creep at relatively low loads (pressures). PLMFLON-1 is also suitable for the food industry.

### Physical properties

|                          |                        |                   |             |
|--------------------------|------------------------|-------------------|-------------|
| Colour :                 |                        |                   | White       |
| Hardness :               | DIN EN ISO 868 (3 sec) | Shore D           | 58 +/-3     |
| Density :                | DIN EN ISO 1183-1      | g/cm <sup>3</sup> | 2.15+/-0.03 |
| Tensile strength :       | ISO 527-2              | N/mm <sup>2</sup> | ≥28         |
| Elongation at break      | ISO 527-1              | %                 | ≥300        |
| Min.service temperature: | ISO 11357-2            | °C                | -200        |
| Max.service temperature: | ISO 11357-2            | °C                | 260         |

### Remark

All test methods and values mentioned above are corresponding to ISO or DIN standards. The properties have been determined on standardized test specimen and can not be directly related to any component or finished item. All tests are made under laboratory conditions. The mentioned values are nominal values and must be fulfilled – considering related tolerances – for each material batch.

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