

Perlast® G75M

Low compression set, multi-purpose perfluoroelastomer

PERLAST®

Description

Perlast® G75M is a black, multi-purpose, perfluoroelastomer compound that provides ultimate all-round resistance to a broad range of chemicals.

Perlast® G75M offers an extremely low compression set, with modulus and hardness optimized to suit the majority of sealing applications. Perlast® G75M is ideally suited for use in mechanical seals and multi-substance chemical plants.

Perlast® G75M can be moulded into O-rings (any size up to 2m/6.5ft diameter) and custom shapes.



Key Attributes

- ▶ Extremely low compression set
- ▶ Superior long-term sealing efficiency
- ▶ Broad chemical resistance
- ▶ High mechanical strength

Typical Applications

Pumps
Valves
Mechanical seals
Chemical process and refining industries
Couplings & fittings

Other materials in this range

Perlast® G75TX (black high temperature grade up to +327°C / +621°F)

Perlast® G74S (White FDA compliant grade up to +260°C / +500°F)

Perlast® G76W (white multi-purpose grade up to +260°C / +500°F)

Typical Material Properties

| Property | ASTM | ISO | Value |
|--|---------------------|--------|----------------------|
| Material Type | FFKM | FFPM | |
| Colour | | | Black |
| Hardness: (°IRHD) | D1415 | ISO48 | 72 |
| | (°Shore A) D2240 | | 75 |
| Tensile Strength (MPa) | D412 | ISO37 | 18.0 |
| Elongation at break (%) | D412 | ISO37 | 153 |
| 100% Modulus (MPa) | D412 | ISO37 | 9.0 |
| Compression Set: 72 hrs @ 200°C (392°F) | D395 | ISO815 | 20 |
| Minimum Operating Temperature | | | -15°C (+5°F) |
| Maximum Operating Temperature | | | +260°C (+500°F) |
| Coefficient of Thermal Expansion (°C ⁻¹) | | | 4.3x10 ⁻⁴ |

SPECIAL NOTE: This information is to the best of our knowledge accurate and reliable. However, PPE Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life, therefore a regular program of inspection and replacement is strongly recommended. The material properties above should not be used for specification purposes.

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