

# DMR Material PTX1555

Premium Proprietary Polymer Reinforced PTFE



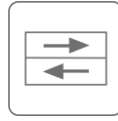
## MATERIAL DATA SHEET (Version 5.1 – 05.2019)



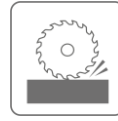
High Temperature



Chemical Resistance



Low Friction



Wear Resistance

### Description

DMR PTX1555 is a premium proprietary polymer reinforced PTFE that has outstanding wear, abrasion, extrusion and temperature resistance, all of which are required in High Pressure / High Temperature (HP/HT) applications.

PTX1555 is a good choice for components operating in heavy duty, high pressure static and dynamic applications which may be subjected to elevated temperature, but can be slightly abrasive when running against soft metals.

### Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 13000-2	g/cm <sup>3</sup>	2.22-2.32
Hardness	ISO 13000-2	Shore D	>60
Tensile Strength	ISO 13000-2	MPa	≥14
Elongation at break	ISO 13000-2	%	≥200
Service temperature *		°C	-200 to +260

\* (Individual testing in application conditions is mandatory)

### Main Characteristics

- Excellent high temperature capability
- Good for HP/HT environments
- Excellent resistance to wear
- Excellent extrusion resistance
- Useful for high speed applications

### Typical products

- Spring energised seals
- O-Ring energised composite seals
- Bearing rings / guide rings
- Bushes
- Valve seat seals

### Typical Applications

Due to modification via special fillers, PTX1555 has vastly improved wear, abrasion and extrusion resistance when compared to Virgin un-filled PTFE. This material is commonly used as a sealing material for static and dynamic spring energised seals, and all of the O-Ring energised Composite seal ranges working in heavy duty service.

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: [sales@dmrseals.co.uk](mailto:sales@dmrseals.co.uk) . Web: [www.dmrseals.co.uk](http://www.dmrseals.co.uk)

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