

materialdata

LEAH Y10

Special polymer alloy for extreme high duty gas compressor piston and rod sealing rings

LEAH Y10 is a hot compression molded, proprietary, filled PEEK compound. The high strength and toughness of this material is coupled with its excellent wear properties in dry gases, allow it to be used for very high-pressure gas applications such as gas injection in oilfield or other extreme conditions.

LEAH Y10 material have used to rod packings up to 1,000 bar, or piston rings up to 500bar, or replace LEAH Y07 materials for better results.

Typical Properties of LEAH Y10

Tensile strength at 20°C (Mpa)	70
Elongation at 20°C (%)	2-3
Coefficient of thermal expansion (/°C)	40-45x10 ⁻⁶
Hardness (Shore 'D')	85-90
Specific gravity	1.5
Suggested temperature limit (non-lube gas compressors) (°C)	230

LEAH should be consulted for the proper design and application of its engineered products and materials.

For further advice and technical support please contact LEAH via the details:

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