

materialdata

LEAH Y07

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

LEAH Y07 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 natural gas injection and CNG applications.

The unique strong properties of LEAH Y07 material have used to rod packings in oil-free conditions up to 350 bar, or replace metallic (eg. bronze) materials.

Typical Properties of LEAH Y07

Tensile strength at 20°C (Mpa)	35
Elongation at 20°C (%)	1-2
Coefficient of thermal expansion (/°C)	40-50x10 ⁻⁶
Hardness (Shore 'D')	80-85
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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Compressor parts and service