

NORSOK M-710 Ed. 3 Declaration

A leading independent Test House has assessed with Test Report C6406-1 that:

PEEK 2600 (PEEK natural)

is in compliance to the **NORSOK M-710 Ed. 3** -Sept. 2014 – “Qualification of non-metallic sealing materials and manufacturers - Polymers” -Sour Aging Test for 56 days - up to 200°C for both Volume swell and Tensile properties in following test fluid conditions:

Volume (%)	Composition
30	10% H ₂ S 5% CO ₂ 85% CH ₄
10	Distilled water (conductivity < 5 µS)
60	70/20/10 vol% heptane/cyclohexane/toluene

On the basis of examinations and analysis the independent test laboratory stated that
“PEEK 2600 shows strong resistance to sour oil at T° between 200 - 220°C over an 8 weeks exposure test period. Changes in mechanical properties at 210 and 220°C are due to annealing, the process of heating above T_g and cooling. This results in higher crystallinity and some increased property levels, which are counteracted by the swelling action of the liquid absorbed into the material “



Marco Nocera

Quality & Customer Care Mgr.

Castelli Calepio, 10th July 2025

Note

NORSOK M-710 is a standard for thermoplastics in environments simulating those found in oil & gas production. The standard is widely used by the Oil and Gas industry in screening and selection of polymeric materials for oilfield applications, including sour (hydrogen sulfide) service.

Exposures were performed in the NORSOK standard sour service test fluid: this contains a mixture of liquid hydrocarbons with methane, carbon dioxide and hydrogen sulfide in the gas phase. A range of temperatures up to 220°C were used. NORSOK M710 provides a standardised test method for comparing material performance in conditions simulating a sour oilfield environment.

It does not guarantee suitability for any particular service application. Users should take expert advice when choosing materials.



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