



DATA SHEET

MATERIAL REFERENCE – FLUORINOID® FL031

DESCRIPTION      CARBON/GRAPHITE/PTFE FILLED PEEK

Material approved in accordance with **NORSOK M-710** Annex C, by Element Materials Technology Report No. C3014-1

TYPICAL APPLICATIONS

FL031 PEEK is a high performance engineering thermoplastic with good chemical resistance, good wear resistance, high maximum use temperature, low flammability, excellent electrical properties and good radiation resistance. The combination of carbon, graphite and PTFE helps reduce wear and friction. This grade of filled PEEK is for production of plain bearings, low friction valve seats etc.

TYPICAL PHYSICAL PROPERTIES

SPECIFIC GRAVITY	(ISO 1183)	1.42 - 1.48
TENSILE STRENGTH	(H-WI-28)	Min. 55MPa
ELONGATION	(H-WI-28)	Min. 3.0%
WORKING TEMPERATURE		-50°C to 260°C
COEFFICIENT OF FRICTION		0.11
AT 20°C, 30.5m / min, 70Kg LOAD		
LIMITING PV AT 20°C, 30.5m / min		1084 (MPa) (m/min)