

# MATERIAL DATASHEET

**Material Reference:**

FLUORONOID® FL354

High Strength Filled PEEK

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> **Description** >

PEEK is a high performance engineering thermoplastic with good chemical resistance, good wear resistance, high maximum use temperature, low flammability and good radiation resistance.

The carbon fibre filler gives a higher tensile strength and lower coefficient of friction.

> **Typical Physical Properties #**

Properties	Values		
	Injection Moulded	Extruded	Compression Moulded
Specific Gravity	1.44	1.40	1.42
Tensile Strength	224MPa	160MPa	120MPa
Elongation	2%	3%	4%
CTE Along Flow & below Tg (ppm K-1)	5	5	-
CTE perpendicular to Flow & below Tg	40	40	-
CTE below Tg	-	-	25

Properties	Value
Compressive Strength	240MPa
Maximum Continuous Use Temperature	260°C
Coefficient of Friction at 20°C, 30.5m / min, 70Kg Load	0.16
Limiting PV at 20°C, 30.5m / min	813 MPa m/min
Hardness Shore D	88
Volume Resistivity	1.4 x 10 <sup>5</sup> Ω.cm

# These figures are typical values for the material and do not represent a product specification. Properties will vary depending on the source of raw material, method of processing, physical form of the product, direction of measurement etc.