

PEEK MSDS poly ether ether ketone

- Material**

Material No.	Polyamide 66
EN Symbol (short)	
AISI/SAE	PA66
UNS	32131-17-2
ASTM	-
B.S.	-
Alloy	-
Registered Works Label	-
Standards	-

- Physical and chemical properties**

Mechanical properties

Stress at yield	ISO 527	97 MPa
Elongation at break	ISO 527	>60 %
Tensile modulus	ISO 527	3600 MPa
	ISO 868, ISO	
Hardness Shore (A/D) or Rockwell (R/L/M)	2039-2	M99 -
Izod notched impact strength at 23 °C	ISO 180/1A	6,4 KJ/m ²
Charpy notched impact strength at 23 °C	ISO 179/1eA	8,2 KJ/m ²

Electrical properties

Dielectric constant at 50 Hz	IEC 60250	3,2 -
Dielectric constant at 1 MHz	IEC 60250	3,2 -
Dissipation factor at 1 MHz	IEC 60250	30 1.E-04
Dielectric strength	IEC 60243-1	190 kV/mm
Thickness for electric strength		0,05 mm Ohm ·
Volume resistivity	IEC 60093	1014 m
Comparative tracking index	IEC 60112	150 -

Thermal properties

Thermal conductance	DIN 52 612	0,25 W/K m
Linear thermal expansion along cross to direction of flow	ISO 11359	47 10-6/K
Melting point or glass transition temp.	ISO 11357	340 °C
	ISO 75 HDT/A (1.8 MPa)	
Heat distortion temperature A		152 °C
Short time use temperature		300 °C
Continuous use temperature		250 °C
Minimal use temperature		-65 °C

Other properties

Humidity absorption at 23°C/50%	ISO 62	<0,1 %
Water absorption	ISO 62	0,5 %
Flammability UL 94	IEC 60695-11-10	V-0 -

Thickness for UL 94
Transparency (opaque/translucent/clear)
Raw material

1,45 mm
opaque
PEEK 450 G

- **Stability and reactivity**

Stability: Product is stable. No hazardous reactions known when stored and handled according to instructions and used for its intended purpose.

Conditions to avoid: do not heat to a temperature above the decomposition temperature

Substances to avoid: Strong acids and strong oxidizing agents

Hazardous decomposition products: no decomposition when handled according to instructions. By strong overheating of the material gaseous decomposition products, especially hydrofluoric acid, tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, carbonyl difluoride, aldehydes, organic acids, ammonia, amines and hydrogen cyanide can be generated.

The figures in this datasheet are guide values. The values are affected by processing conditions, modifications, additives and environmental conditions and they do not release you from the obligation to check the validity and to undertake tests on your own. The information given is based on our state of knowledge. The material data is not to be construed as guaranteeing specific properties and the data can not be used to deduce the suitability for a particular application.