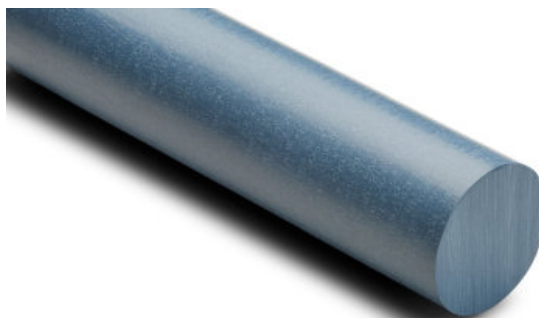


## Technical Data Sheet

### PEEK (Polyetheretherketone) (Metal Detectable) Blue Grey (WCMMDPEEKBL)

Density	1.49 g/cm <sup>3</sup>
Fillers	detectable filler
Main features	detectable via metal detector good chemical resistance high creep resistance inherent flame retardant good heat deflection temperature hydrolysis and super heated steam resistant good machinability
Target Industries	food technology, mechanical engineering



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MECHANICAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Modulus of elasticity (Tensile test)	1mm/min	4600	Mpa	DIN EN ISO 527-2
Tensile strength	50mm/min	111	Mpa	DIN EN ISO 527-2
Tensile strength at yield	50mm/min	111	Mpa	DIN EN ISO 527-2
Elongation at yield	50mm/min	4	%	DIN EN ISO 527-2
Elongation at break	50mm/min	6	%	DIN EN ISO 527-2
Flexural strength	2mm/min, 10 N	166	Mpa	DIN EN ISO 178 2
Modulus of elasticity (Flexural test)	2mm/min, 10 N	3700	Mpa	DIN EN ISO 178
Compression strength	1% / 2% / 5% 5mm/min, 10 N	25/46/106	Mpa	EN ISO 604
Compression modulus	5mm/min, 10 N	4800	Mpa	EN ISO 604
Impact strength (Charpy)	max. 7,5J	72	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU
Ball indentation hardness		260	Mpa	ISO 2039-1
THERMAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Glass transition temperature		150	°C	DIN EN ISO 11357
Melting temperature		341	°C	DIN EN ISO 11357
Service temperature	short term	300	°C	
Service temperature	long term	260	°C	



Certificate Number: 14352  
ISO 9001



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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## PEEK (Polyetheretherketone) (Metal Detectable) Blue Grey (WCMMDPEEKBL)

THERMAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Thermal expansion (CLTE)	23-60°C, long.	5	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2
Thermal expansion (CLTE)	23-100°C, long.	5	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2
Thermal expansion (CLTE)	100-150°C, long.	7	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2
Specific heat		1.1	J/(g*K)	ISO 22007-4:2008
Thermal conductivity		0.27	W/(K*m)	ISO 22007-4:2008
ELECTRICAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Specific surface resistance		> 10 <sup>14</sup>	Ω	DIN IEC 60093
Specific surface resistance		> 10 <sup>14</sup>	Ω*cm	DIN IEC 60093
OTHER PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Water absorption	24h / 96h (23°C)	0.02 / 0.03	%	DIN EN ISO 62
Resistance to hot water/ bases		(+)	-	-
Resistance to weathering		-	-	-
Flammability (UL94)	corresponding to	V0		DIN IEC 60695-11-10;

All The above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.

PLASTICS



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