Munsch & Co "Keeping You Working"

PTFM SEALING YOUR FUTURE

PLASTICS

Technical Data Sheet

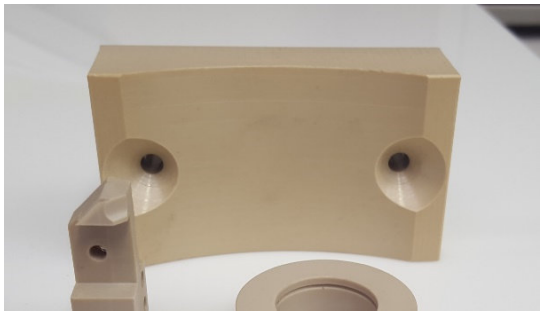
PEEK

Beige grey

PEEK (polyetheretherketone) very high temperature resistance (250 deg c constantly and up to 310 deg c for short period). Excellent chemical and high energy radiation resistance and superb dimensional stability, along with good hydrolysis and flammability resistance. Excellent abrasion resistance and sliding properties.

product information

Name: Peek



key characteristics

- Excellent chemical and high energy radiation resistance
- Superb dimensional stability
- Excellent abrasion resistance
- Good sliding properties
- Good electrical insulating properties
- Good machinability

applications

- Gears
- Piston rings
- Bearings
- Valves
- Wear plates

Peek is also available in filled grades, such as carbon, glass and solid lubricant, which further improve performance in more specific applications.

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026

Certificate Number: 14352
ISO 9001

UK GASKET & SEALING ASSOCIATION

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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Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183	g/cm^3	1.32
2. Water absorption	ISO 62	%	0.2
3. Maximum service temp.	Long Term	°C	240
	Brief	°C	310
4. Minimum working temperature		°C	-60
4. Melting point	DIN 5376	°C	343

Mechanical Properties	Test	Unit	Result
1. Tensile stress at break	ISO 527	MPa	110
2. Modulus of elasticity	ISO 527	Mpa	4000
3. Impact strength	DIN 53453	kJ/m^2	NB
4. Notched impact strength	DIN 53453	kJ/m^2	5
5. Ball indentation hardness	ISO 2039-1	N/mm^2	230
6. Rockwell hardness	ISO 2039-2	-	M105
7. Coefficient of friction	Dry vs steel	-	0.3-0.5

Thermal Properties	Test Method	Unit	Result
1. Coefficient of linear thermal expansion (23-60°C)	ISO 11359	m/(m-K)	50×10^{-6}

Electrical Properties	Test Method	Unit	Result
1. Surface resistivity	DIN 53482	Ω	10^{18}
2. Dielectric constant	DIN 53483	@ 50 Hz dry	3.2
3. Volume resistivity	DIN 53482	Ω x cm	4.9×10^{16}
4. Tracking resistance	DIN 53480	-	150
5. Dielectric strength	DIN 53481	kV/mm	20

Additional Data			Test Method	Unit	Result
1. Food compliance			FDA + EU	-	+
2. Flammability	UL94	-	V-0		

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

Key		
Yes	Limited	No or no data
+	0	-

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