

DW700

Features:

DExWin® DW700 is a thermoplastic PEEK with endless carbon fibre reinforcement, produced by thermoplastic winding technology. The material is ideal for example bushing rings and wear-rings. Extremely high compressive strength coupled with high elasticity enables bearings to attain their prominent features in association with soft shafts, edge loads and impacts. The bearings are also suitable for service temperatures up to +274°C and are available as cylindrical bearings. DExWin® DW700 has excellent wear resistance especially in high loads.

Benefits:

- Excellent chemical resistance
- Low density – high strength
- High operation temperature
- Great emergency running properties
- Recyclability

Applications:

- Bushings
- Wear rings
- Rotor reinforcement

Feasibility:

- From Ø 10mm to Ø 1.500mm
- Length up to 12.000mm
- More dimensions upon request



TYPICAL PROPERTIES

Physical properties	Typical Values	Units
Fibre	Carbon	-
Matrix	PEEK	-
Color	Black	
Density	1,65	g/cm ³
Coeff. of expansion	-0,5	, 10 ⁻⁶ 1/K
Mechanical properties		
Tensile strength	2.300	, MPa
Tensile modulus	140.000	, MPa
Compressive strength	1.400	, MPa
Compressive modulus	125.000	, MPa
Max. surface pressure	230	MPa
Shore D hardness	95	
Max. p x V dynamic	1,28	MPa x m ^m /sec
Thermal properties		
Op. temp. continuous	-30 / +274	°C
Op. temp. short term	-100 / +310	°C

All data are approximate values