

Dexnyl[®] PEEK-Graphite SF

DATASHEET

	Property	Method	Units	Specification
Physical	Color	-	-	Black
	Specific gravity	ASTMD 792	g/cm ³	1,28-1,35
	Water absorption, 24 hours	ASTMD 570	%	0,30
Mechanical	Elongation, at break	ASTMD 638	%	≥3,5
	Tensile strength, at Yield (23°C)	ASTMD 638	MPa	≥ 80
	Tensile modulus	ASTMD 638	GPa	≥ 6
	Compressive strength, at 23°C	ASTMD 695	MPa	≥ 100
	Izod impact strength, notched	ASTMD 256	J/m	≥ 60
	Hardness Shore	ASTMD 2240	Shore D	≥ 85
	Hardness Rockwell, M scale	ASTMD 785	Rockwell	≥ 90
	Coefficient of static friction	ASTMD3702	-	≤ 0.25
	Coefficient of dynamic friction	ASTMD3702	-	≤ 0.15
Thermal	Peak Melting Temperature	ASTMD3418	°C	343-345
	Maximum service temperature	Internal test	°C	300
	Service Temperature, Air	Internal test	°C	-50/+250
	Oxygen Index, LOI	ASTMD2863	%	>30-32
	Flammability	UL94	-	V-0
Electrical	Dielectric Strength , 2mm thk	ASTM D149	kV/mm	≥20
	Surface Resistivity	ASTM D257	Ohm	10 ¹⁰
	Volume Resistivity	ASTM D257	Ohm*cm	10 ¹¹

Product Properties:

- High heat resistance
- Excellent wear & friction behaviour
- Low permeability
- Good dimensional stability
- High mechanical strength, stiffness and creep resistance
- Fatigue resistant
- Flame retardant
- Excellent chemical resistance
- High energy radiation resistant
- Radiation and heat sterilizable