

CZ-2065-H1

- **Product Summary:** CZ-2065-H1 is a carbon fiber reinforced PPS compound with the highest thermal / electric conductivity within DIC.PPS portfolio.
- **Color:** Black

Engineering Properties of CZ-2065-H1

Properties	Test Method	Unit	CZ-2065-H1 CF/Filler High thermal conductivity, Electroconductive
General Information			
Physical			
Density	ISO 1183	g/cm ³	1.81
Water absorption, 23°C/24Hrs.	ISO 62	%	0.01
Mold shrinkage ^a	ISO 294-4	%	0.1/0.3
Mechanical			
Tensile strength	ISO 527-1,2	MPa	75
Tensile modulus	ISO 527-1,2	GPa	38.0
Tensile strain at break	ISO 527-1,2	%	0.2
Flexural strength	ISO 178	MPa	110
Flexural modulus	ISO 178	GPa	33.0
Flexural strain at break	ISO 178	%	0.3
Charpy impact strength, notched	ISO 179/1eA	kJ/m ²	1
unnotched	ISO 179/1eU	kJ/m ²	3
Co-eff. of friction ^b , static/dynamic	-	-	-
Thermal			
Heat deflection temperature, 1.80MPa	ISO 75-1,2	°C	270
Co-eff. of linear thermal expansion ^a , -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	0.1/2.0
Co-eff. of linear thermal expansion ^a , 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	0.5/4.0
Thermal conductivity	DIC	W/m·K	30
Electrical			
Dielectric strength, t=1.0mm	IEC 60243-1	kV/mm	-
Dielectric constant, 1MHz	IEC 60250	-	-
Dissipation factor, 1MHz	IEC 60250	-	-
Comparative Tracking Index (CTI)	IEC 60112	V	-
Volume resistivity	IEC 60093	Ω·cm	10 ⁻¹
Molding Condition			
Cylinder temperature	-	°C	300-340
Mold temperature	-	°C	130-180

a: Flow direction/Transverse direction