Color & Comfort

DIC.PPS
Polyphenylene Sulfide

September, 2023

Z-200-J2 BLACK

■ **Product Summary: Z-200-J2 is an unreinforced super tough PPS compound with outstanding flexibility and impact resistance compared to FZ-2100 and Z-200-E5.**

■ **Color: Black**

Engineering Properties

Properties	Test Method	Unit	Typical value
General Information			Unreinforced Ultra-super tough Freezing resistance
Physical			
Density	ISO 1183-1	g/cm³	1.25
Water absorption, 23˚C/24Hrs.	ISO 62	%	0.03
Mold shrinkage [a]	ISO 294-4	%	1.2/1.6
Mechanical			
Tensile strength	ISO 527-1,2	MPa	Y50
Tensile modulus	ISO 527-1,2	GPa	2.5
Tensile strain at break	ISO 527-1,2	%	tB55
Flexural strength	ISO 178	MPa	85
Flexural modulus	ISO 178	GPa	2.4
Flexural strain at flexural strength	ISO 178	%	-
Charpy impact strength,			
notched	ISO 179/1eA	kJ/m²	40
unnotched	ISO 179/1eU	kJ/m²	NB
Co-eff. of friction [b], static/dynamic	-	-	-
Thermal			
Heat deflection temperature, 1.80MPa	ISO 75-1,2	˚C	100
Co-eff. of linear thermal expansion [a], -50~50 ˚C	ISO 11359-2	x 10^{-5}/K	4.5/5.5
Co-eff. of linear thermal expansion [a], 100~200 ˚C	ISO 11359-2	x 10^{-5}/K	14.0/14.0
Electrical			
Electric strength, t=1.0mm	IEC 60243-1	kV/mm	26
Relative permittivity, 1MHz	IEC 62631-2-1	-	3
Dielectric dissipation factor, 1MHz	IEC 62631-2-1	-	0.008
Comparative Tracking Index (CTI)	IEC 60112	V	125
Volume resistivity	IEC 62631-3-1	Ω·cm	10^{17}
Molding Condition			
Cylinder temperature	-	˚C	290-320
Mold temperature	-	˚C	130-150

a: Flow direction/Transverse direction
b: P=150kPa, V=0.3m/s, PPS vs. carbon steel
* : Y=Tensile stress at yield, tB=Nominal tensile strain at break, NB=Not Broken

DIC Corporation