

Z-200-E5

- **Product Summary:** Z-200-E5 is an unreinforced super tough PPS compound with excellent flexibility and toughness compared to FZ-2100.
- **Color:** Gray

Engineering Properties of Z-200-E5

Properties	Test Method	Unit	Z-200-E5
General Information			Unreinforced Ultra-super tough
Physical			
Density	ISO 1183	g/cm ³	1.31
Water absorption, 23°C/24Hrs.	ISO 62	%	0.02
Mold shrinkage ^a	ISO 294-4	%	1.2/1.5
Mechanical			
Tensile strength	ISO 527-1,2	MPa	Y65
Tensile modulus	ISO 527-1,2	GPa	3.5
Tensile strain at break	ISO 527-1,2	%	tB20
Flexural strength	ISO 178	MPa	120
Flexural modulus	ISO 178	GPa	3.2
Flexural strain at break	ISO 178	%	-
Charpy impact strength, notched	ISO 179/1eA	kJ/m ²	6
unnotched	ISO 179/1eU	kJ/m ²	NB
Co-eff. of friction ^b , static/dynamic	-	-	-
Thermal			
Heat deflection temperature, 1.80MPa	ISO 75-1,2	°C	105
Co-eff. of linear thermal expansion ^a , -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	4.0/5.0
Co-eff. of linear thermal expansion ^a , 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	13.0/13.0
Flammability ^c /thickness (mm)	UL-94	-	V-0/0.75
Electrical			
Dielectric strength, t=1.0mm	IEC 60243-1	kV/mm	30
Dielectric constant, 1MHz	IEC 60250	-	3
Dissipation factor, 1MHz	IEC 60250	-	0.003
Comparative Tracking Index (CTI)	IEC 60112	V	200
Volume resistivity	IEC 60093	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

c: UL file No. E53829

* : Y=Tensile stress at yield, tB=Nominal tensile strain at break, NB=Not Broken