

Z-200-E2 GRAY

■ **Product Summary:** Z-200-E2 GRAY is an unfilled super tough PPS compound with excellent flexibility and toughness under a wide environmental atmosphere from very low temperature to high temperature.

■ **Color:** Gray

Engineering Properties			
Properties	Test Method	Unit	Typical value
General Information			Unfilled Impact modified
Physical			
Specific gravity	ISO 1183-1	-	1.33
Water absorption, 23°C/24Hrs.	ISO 62	%	0.02
Mold shrinkage ^a	ISO 294-4	%	1.1/1.4
Mechanical			
Tensile strength	ISO 527-1,2	MPa	Y70
Tensile modulus	ISO 527-1,2	GPa	3.5
Tensile strain at break	ISO 527-1,2	%	tB15
Flexural strength	ISO 178	MPa	125
Flexural modulus	ISO 178	GPa	3.3
Flexural strain at break	ISO 178	%	-
Charpy impact strength, notched	ISO 179/1eA	kJ/m ²	4
unnotched	ISO 179/1eU	kJ/m ²	NB
Thermal			
Heat deflection temperature, 1.82MPa	ISO 75-1,2	°C	105
Co-eff. of thermal expansion MD/TD ^a , -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	4.0/5.0
Co-eff. of thermal expansion MD/TD ^a , 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	13.0/13.0
Electrical			
Dielectric strength, t=1.0mm	IEC 60243-1	kV/mm	30
Dielectric constant, 1MHz	IEC 62631-2-1	-	3
Dissipation factor, 1MHz	IEC 62631-2-1	-	0.002
Comparative Tracking Index (CTI)	IEC 60112	V	200
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

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