



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 Water absorption, 23°C/24Hrs. Mold shrinkage ^a Mechanical	ISO 1183-1 ISO 62 ISO 294-4	g/cm³ % %	1.25 0.03 1.2/1.6
	ISO 527 1 2	MPa	Y50
Tensile strength Tensile modulus	ISO 527-1,2 ISO 527-1,2	GPa	2.5
Tensile modulus Tensile strain at break	ISO 527-1,2	%	2.5 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

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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