



September, 2023

Z-230 BLACK-2(B)

■ Product Summary: Z-230 Black-2(B) is a 30% glass fiber reinforced super tough PPS compound with excellent impact, thermal shock, hot water resistance and less outgas compared to Z-230.

■ Color: Black

Engineering Properties

Properties	Test Method	Unit	Typical value
General Information			GF30% Super tough Low outgas
Physical			
Density Water absorption, 23°C /24hrs. Mold shrinkage ^a	ISO 1183-1 ISO 62 ISO 294-4	g/cm³ % %	1.56 0.02 0.3/0.8
Mechanical			
Tensile strength Tensile modulus Tensile strain at break Flexural strength Flexural modulus Flexural strain at flexural strength Charpy impact strength, notched unnotched Co-eff. of friction b, static/dynamic Thermal Heat deflection temperature, 1.80MPa Co-eff. of linear thermal expansion a, -50~50 °C Co-eff. of linear thermal expansion a, 100~200 °C	ISO 527-1,2 ISO 527-1,2 ISO 527-1,2 ISO 178 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eU - ISO 75-1,2 ISO 11359-2 ISO 11359-2	MPa GPa % MPa GPa % kJ/m² - - °C x 10-5/K x 10-5/K	160 12.0 2.0 250 11.0 2.5 10 58 - 265 1.5/5.0 1.5/13.0
Flammability ^c /thickness (mm)	UL-94	X 10 %K	V-0/0.75
Electrical			
Electric strength, t=1.0mm Relative permittivity, 1MHz Dielectric dissipation factor, 1MHz Comparative Tracking Index (CTI) Volume resistivity	IEC 60243-1 IEC 62631-2-1 IEC 62631-2-1 IEC 60112 IEC 62631-3-1	kV/mm - - V Ω·cm	27 4 0.004 175 10 ¹⁶
Molding Condition			
Cylinder temperature Mold temperature	-	°C	290-320 130-150

a: Flow direction/Transverse direction

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b: P=150kPa, V=0.3m/s, PPS vs. carbon steel

c: UL file No. E53829