

Z-650-SW BLACK

■ Product Z-650-SW is a glass fiber and special filler filled super tough PPS compound that provides low warpage, excellent impact resistance, thermal shock resistance properties and flowability.

■ Color: Black

Engineering Properties			
Properties	Test Method	Unit	Typical value
General Information			GF/Filler Super tough, High flow
Physical			
Density	ISO 1183-1	g/cm ³	1.70
Water absorption, 23°C/24hrs.	ISO 62	%	0.02
Mold shrinkage ^a	ISO 294-4	%	0.4/0.6
Mechanical			
Tensile strength	ISO 527-1,2	MPa	160
Tensile modulus	ISO 527-1,2	GPa	14.5
Tensile strain at break	ISO 527-1,2	%	1.8
Flexural strength	ISO 178	MPa	260
Flexural modulus	ISO 178	GPa	14.5
Flexural strain at break	ISO 178	%	2.0
Charpy impact strength, notched	ISO 179/1eA	kJ/m ²	10
unnotched	ISO 179/1eU	kJ/m ²	50
Thermal			
Heat deflection temperature, 1.80MPa	ISO 75-1,2	°C	270
Co-eff. of linear thermal expansion ^a , -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.3/3.5
Co-eff. of linear thermal expansion ^a , 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.4/9.3
Electrical			
Dielectric strength, t=1.0mm	IEC 60243-1	kV/mm	26
Dielectric constant, 1MHz	IEC 62631-2-1	-	-
Dissipation factor, 1MHz	IEC 62631-2-1	-	-
Comparative Tracking Index (CTI)	IEC 60112	V	175
Volume resistivity	IEC 62631-3-1	Ω·cm	10 ¹⁶
Molding Condition			
Cylinder temperature	-	°C	300-320
Mold temperature	-	°C	130-150

a: Flow direction/Transverse direction