

Z-230 BLACK2(B)

- **Out line:** Z-230 BLACK2(B) is a 30% glass fiber reinforced super tough PPS compound which provides excellent impact, thermal shock, process ability.
- **Color:** Black

Engineering Properties of Z-230 BLACK2(B)

Properties	Test Method	Unit	Z-230 BLACK2(B)
General Information			GF30% Super tough
<ASTM>			
Physical			
Specific gravity	D-792	-	1.56
Water absorption, 23deg. /24Hrs. /in water	D-570	Wt. %	0.02
Mold shrinkage, MD /TD ^a	D-955	%	0.30/1.2
Mechanical			
Tensile strength	D-638	MPa	165
Tensile modulus	D-638	MPa	10000
Tensile elongation at break	D-638	%	2.2
Poisson's ratio	-	-	0.35
Flexural strength	D-790	MPa	230
Flexural modulus	D-790	MPa	9500
Flexural elongation at break	D-790	%	3.0
Izod impact strength notched / un notched	D-256	J/m	110/750
Compressive strength	D-695	MPa	150
Rockwell hardness, R/M	D-785	-	118/-
Coefficient of friction ^b , static /dynamic	-	-	-
Thermal			
Distortion temp. of under load, 1.82MPa	D-648	°C	255
Coefficient of thermal expansion, -30 to 100°C	D-696	m/mK	2.2x10 ⁻⁵
UL Flammability, t~1.6mm	UL-94	-	V-0 ^c
Electrical			
Dielectric strength, t=1.6mm	D-149	kv/mm	16
Dielectric constant, 1MHz	D-150	-	5
Dissipation factor, 1MHz	D-150	-	0.005
Comparative tracking index (CTI)	D-3638	Volt	-
Arc resistance	D-495	sec.	-
Volume resistibility	D-257	Ohm.cm	10 ¹⁶
Process Conditions			
Cylinder temperature	-	°C	290-320
Mold temperature	-	°C	120-150

a: MD; Mold direction, TD; Transverse direction, b: P=150KPa, V=0.3m/s, PPS vs. carbon steel, c: Own Data



★Please refer to Material Safety Data Sheet for safety precautions prior to use. The information contained in this data sheet is based on tests or research DIC Corporation ('DIC') believes to be reliable, but no warranty is given by DIC concerning the accuracy or completeness thereof. The supply of the information does not release the recipient from the obligation to test the products as to their suitability for the intended applications and processes. DIC has no liability for any consequence of the application, processing or use of the information or the products. Information concerning the application of the products is not and should not be construed as a warranty as to non-infringement of intellectual property for a particular application.