

# Z-230

- **Out line:** Z-230 is a 30% glass fiber reinforced super tough PPS compound which provides excellent impact, thermal shock, hot water resistances.
- **Color:** Black

## Engineering Properties of Z-230

Properties	Test Method	Unit	Z-230
General Information			GF30% Super tough
<ASTM>			
<b>Physical</b>			
Specific gravity	D-792	-	1.53
Water absorption, 23deg. /24Hrs. /in water	D-570	Wt. %	0.02
Mold shrinkage, MD /TD <sup>a</sup>	D-955	%	0.30/1.2
<b>Mechanical</b>			
Tensile strength	D-638	MPa	155
Tensile modulus	D-638	MPa	9300
Tensile elongation at break	D-638	%	2.4
Poisson's ratio	-	-	0.36
Flexural strength	D-790	MPa	220
Flexural modulus	D-790	MPa	8500
Flexural elongation at break	D-790	%	3.2
Izod impact strength notched / un notched	D-256	J/m	140/750
Compressive strength	D-695	MPa	150
Rockwell hardness, R/M	D-785	-	118/-
Coefficient of friction <sup>b</sup> , static /dynamic	-	-	-
<b>Thermal</b>			
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 <sup>-5</sup>
UL Flammability <sup>c</sup> , t~1.6mm	UL-94	-	V-0
<b>Electrical</b>			
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 <sup>16</sup>
<b>Process Conditions</b>			
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: UL file No. E53829



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