



October, 2016

Z-230-T3

■ Product Summary: Z-230-T3 is a 30% glass fiber reinforced super tough PPS compound with excellent impact, thermal shock, and hot water resistance.

■ Color: Black

Engineering Properties of Z-230-T3

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Properties	Test Method	Unit	Z-230-T3
General Information			GF30% Super tough
Dhysical			Super tough
Physical	100 4400	. / 2	4.50
Density	ISO 1183	g/cm³	1.53
Water absorption, 23°C/24hrs.	ISO 62	%	0.02
Mold shrinkage ^a	ISO 294-4	%	0.3/0.8
Mechanical			
Tensile strength	ISO 527-1,2	MPa	150
Tensile modulus	ISO 527-1,2	GPa	11.0
Tensile strain at break	ISO 527-1,2	%	2.2
Flexural strength	ISO 178	MPa	240
Flexural modulus	ISO 178	GPa	10.0
Flexural strain at break	ISO 178	%	2.6
Charpy impact strength,			
notched	ISO 179/1eA	kJ/m²	13
unnotched	ISO 179/1eU	kJ/m²	61
Co-eff. of friction b, static/dynamic	-	-	-
Thermal			
Heat deflection temperature, 1.80MPa	ISO 75-1,2	°C	260
Co-eff. of linear thermal expansion a, -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.5/5.0
Co-eff. of linear thermal expansion a, 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.5/13.5
Flammability c/thickness (mm)	UL-94	-	V-0/1.5
Electrical			
Dielectric strength, t=1.0mm	IEC 60243-1	kV/mm	27
Dielectric constant, 1MHz	IEC 60250	-	4
Dissipation factor, 1MHz	IEC 60250	_	0.005
Comparative Tracking Index (CTI)	IEC 60112	V	175
Volume resistibility	IEC 60093	Ω·cm	10 ¹⁶
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

c: UL file No. E53829